

*Edmonton's*  
**OIL PROGRESS EDITION**

Photo by Bland

# GEO. E. FAILING SUPPLY COMPANY LTD.

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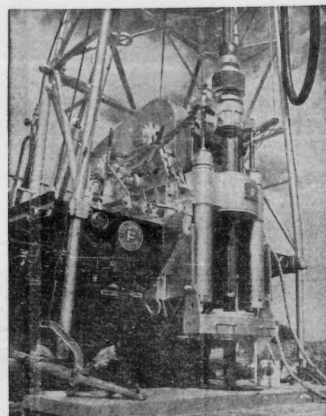
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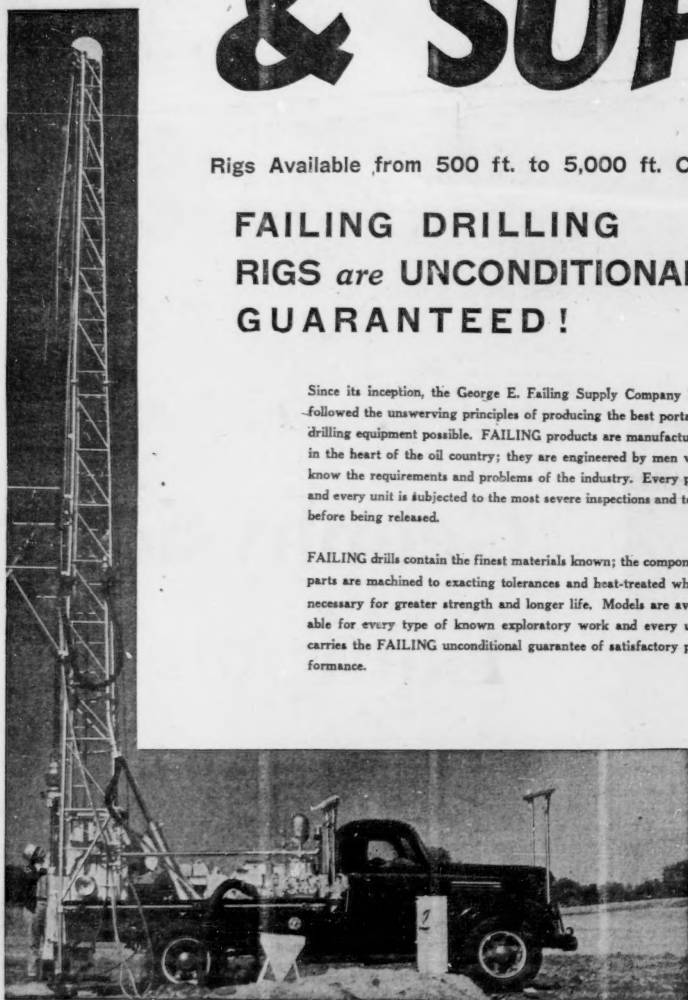
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The George E. Failing Company, Ltd., believe that better service can be made available to and will be greatly appreciated by their large and ever growing clientele, by the establishment of this Edmonton office and warehouse where a large and complete stock of parts and equipment will be carried and your needs will be promptly taken care of by a fully experienced staff.

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## Money, Machines, Toil Oil Hunt Expendables

Money, machines and hard unremitting toil are all expendables in the great search for oil.

Greatest single casualty in western oil history was Muskeg No. 3, a shut-in hole two miles deep that cost five oil companies more than \$100,000.

For more than one and a half years bulldozers, crews, road-makers, drillers and roughnecks toiled through heat and cold to find the answer to a geological riddle. The answer was found after 553 days of drilling with the cash register ringing up a disappointing "no sale."

### DEEP IN FOOTHILLS

Muskeg No. 3 site was 150 miles west and 70 miles southwest of Edmonton, deep in the Rocky Mountain foothills district.

Main base of operations was the hamlet of Entrance on the main line of the C.N.R. about 150 miles west of Edmonton.

Companies co-operating in the Muskeg operation were Imperial Oil Ltd., Gulf Oil Co. Ltd., McColl, Fronenae, Shell Oil and Suncor-Vancouver.

### FIRST BIG STEP

First major step in the project was construction of a road through winding mountain valleys in the fall of 1946.

This in itself was a stupendous undertaking as muskeg was encountered even on the high, steep slopes as well as deep in the troughs of the valleys.

It was necessary to blast for miles through solid rock.

Autumn rains and early snows made the task more difficult. Masses of gumbo mired trucks and other heavy equipment.

**WORK AROUND CLOCK**  
Short days of winter compelled working nights with lights on vehicles. Crews worked round the clock with temperatures down to 20 degrees below zero.

The road was finally completed at the staggering cost of \$475,000 and drill equipment moved in. Spudding in was made April 1947.

Drilling was a nightmare to the veteran crews.

Sometimes rapid progress was made through normal formations. At other times drills encountered rock as unyielding as steel and the pace would become exasperatingly slow.

In all, 792 drilling bits were used, 20 times the number used in drilling the average Leduc well.

**NO OIL INDICATIONS**  
Not once did the crews bring up cuttings indicating presence of oil or gas.

When the hole was down to 10,000 feet the grizzly determined crews reluctantly decided to abandon the costly project.

Drilling alone cost \$1,125,000. Of course Muskeg wasn't undertaken as a reckless gamble.

Geologists had known of the presence of a promising anticline

(saucer-shaped area below surface that could contain oil) as far back as 1917.

Geologists never permit a question like that to remain unanswered indefinitely.

### OTHER STRUCTURES

Muskeg anticline is one of several such structures in the northern foothills. Others are Coalpass, Hrasau and Stoberg, all of which were drilled in recent years by Imperial or other companies at a total cost of \$2,613,823. Traces of gas and oil were found but commercial value was too low to warrant production.

Muskeg was just another failure more costly than the others.

But had Muskeg produced oil in commercial quantities, or have opened a new producing field, a new and baffling cost problem would have presented itself.

### PIPELINE NEEDED

A pipeline would have been necessary to transport oil 230 miles to Nisku. At least 35,000 barrels per day production would need to go through the pipeline to justify marketing. Such a pipeline would cost \$1,400,000. To move oil west from Muskeg 572 miles to Vancouver would have cost \$42,000,000.

Exploration for Muskeg cost \$1,200,000. Had a field of 100 producers been brought in, cost would have been about \$80,000,000.

Therefore the partner oil companies would have been faced with the stupendous outlay of \$82,000,000 before a single returning dollar was sighted.

### NORMAL RISKS

But such necessary risks are the normal risks of petroleum exploration and development in Alberta.

Only companies sufficiently strong financially to willingly take such risks can develop Alberta's great wealth of oil.

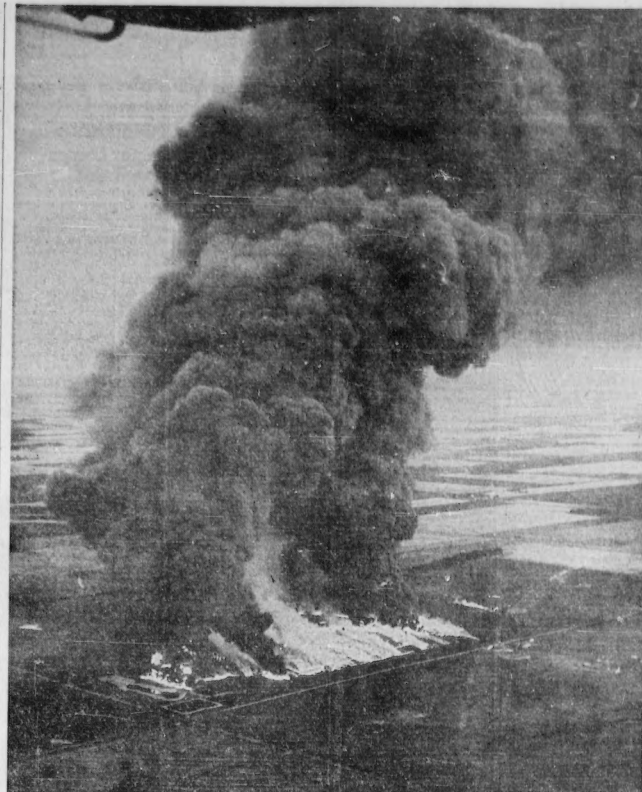
Muskeg was a costly failure in one sense but it was a necessary investment in the continuing story of oil in Alberta.

**Machine To Open  
Mail On Market**

Two office machines being distributed in Canada are the Multi-Opener and the Multi-Sealer, both all-electric, high speed, precision-built machines.

The MultiOpener automatically opens and stacks thousands of envelopes per hour. Readily accessible dial gives operator exact control of the depth of trim.

Uniform cutting the full length of envelope ribs, without injury to contents, is accomplished by the precision feed principle.



**INFERNO OF SMOKE** and flame from fire at wild Atlantic No. 3 gave Bulletin Staff Photographer Eric Bland most spectacular picture of 1948. Bland took graphic picture from a specially-chartered plane a few

minutes after Atlantic No. 3 caught fire on Labor Day evening, 1948. Awesome column of smoke rose to 15,000 feet. Fire burned for 60 hours before being subdued by water injection from two directional wells.

With 50,000,000 more vehicles on U.S. highways by 1963, gasoline and lubricant consumption will be expanded also in farming continue to expand. This would aid aviation.

## Conservation Boon To Oil Industry

Whole Fields Once Wasted  
By Production Excesses

Conservation of energy and the avoidance of excesses is the secret of long life for the human being. Exactly the same principle holds true for an oil field.

There was a time not so long ago when whole oil fields died prematurely because they literally blew too fast.

There was a time when oil wells were permitted to produce at a maximum rate, with gas pressure caps dissipating their tremendous energy into the open air, leaving trapped forever in the ground enormous pools of valuable petroleum.

A few people made a lot of money in a big hurry, but the nation was forever poorer.

### WON'T EXIST AGAIN

This situation will never exist again in Alberta's great new oil fields of Leduc, Hordale and Lloydminster.

Alberta has frowned upon the fast-living oil field and has established as the champion and guardian of her underground treasure house the Alberta Petroleum and Natural Gas Conservation Board.

No longer will there be vast pillars of fire by night or blinding gas clouds by day to signalize the selling of Alberta's birthright of resources for a mass of quick profits.

### ACT PASSED IN 1938

The Alberta Oil and Gas Resources Conservation Act was passed at a special session of the Legislature in November, 1938 with "the intent, purpose and object in effect the conservation of oil and gas resources in the province by the control or regulation of the production of oil and gas whether by restriction or prohibition or whether generally or with respect to any specified area or any specified well or wells or by representing of any field and incidentally thereto providing for compulsory purchase of any well or wells."

When the conservation board took office in 1938 it was faced with a major problem in Turner Valley.

Since 1924 enormous quantities of gas had been withdrawn daily from the Valley gas cap for the recovery of naphtha. Gas was burned at a flare line that glowed on the sky southwest of Calgary for years.

Individual wells produced as much as 20,000,000 cubic feet of gas and 500 barrels of naphtha daily.

**QUANTAS ASSIGNED**  
As wells drained off the gas and naphtha from the top it was noted that heavier crude oil was appearing in wells along the west bank.

Another boom was in full swing with the rapid depletion of the new field certain unless immediate steps were taken to conserve the gas lift drive. The board stepped in.

Each well in the field was assigned a production quota based on its productivity, formation, pressure and gas-oil ratio. Quotas were assigned from month to month.

Many operators resented these strict measures for a time, but the conservation board went right ahead with its plans to prolong life of the field.

**BLESSING TO OILMEN**  
By the time the great discovery was made at Leduc in 1947, conservation was accepted as a blessing to all oilmen. Sparring of wells of one producer to each 40 acres became an accepted procedure.

The conservation board had a real test when Atlantic No. 3 went out of control. Without legislative powers in the hands of the board, Atlantic No. 3 might well have proved a major disaster to the rich new oil field.

The wild well was declared a menace and field production shut down completely until the rampant gusher was drowned with water and cemented off.

**GREAT SAVING**  
Under board direction, the enormous production from wild Atlantic No. 3 was collected in sumps and piped to Nisku. In that way thousands of dollars worth of oil were saved and pressures retained as far as possible in the remainder of the field.

To ensure maximum ultimate recovery of oil from a field it is necessary to make the most efficient use of gas pressure that drives oil through the rock pores to the well. This pressure is principally due to natural gas which is dissolved in liquid petroleum and may also form a gas cap above the fluid level in the formation.

If flow of oil is uncontrolled, gas pressure is soon dissipated. Water will then rise, blocking off the oil, which is forever trapped deep in the earth.

**MADE CHAIRMAN**  
I. N. McKinnon has been chairman of the board since February 1949. In addition he is deputy minister of mines and minerals. Other board members are Dr. G. W. Govier of the University of Alberta and D. P. Goodall.



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SOMETIMES GEOLOGISTS get fair idea of oil possibilities from close examination of surface rocks. Imperial Oil Geologist, Joe Gheddie examines bed rock outcropping for fossils of long forgotten age. Magnifying glass and hammer are standard field equipment for modern geologist. Picture was taken in Rocky Mountain foothills region west of Edmonton.

## Huge Smoke Ring Was Leduc Omen

At First Flaring Of No. 1 Well Field Proved Its Great Wealth

At exactly 4:00 o'clock on the afternoon of February 13, 1947, a swab which had been lifting thin drilling mud of Imperial's Leduc No. 1 well stemmed slowly up into the derrick in the crisp winter sunshine above. Some 500 persons, chilled through with cold, watched and listened. Suddenly a shriller's voice, high-pitched with excitement, rang out shrill and clear as a quarterback's signals on a rugby field.

"Here she comes!" he said. "She's coming in!"

Then, moments later, as if he were reassuring himself, this veteran of a dozen unproductive wells said: "It's oil—oil!"

Thus Imperial's Leduc No. 1, located 10 miles south of Edmonton, in completely unexplored territory, came into production.

### TRAPPED FOR ONS

The roughneck on the derrick floor spun valves on the well head and turned the flow over the pit where the rock cuttings and spent drilling mud had run. Almost a mile below, in porous dolomite rock which had lain undisturbed since it was deposited on ancient sea floors millions of years ago, the great pressures of trapped natural gas and oil were seeking outlet.

As the heavy burden of drilling mud was lifted from the gas and oil they surged forward, forcing the contents of the drill hole before them. Mixed mud they nuzzled out of the open end of a pipe over the mud pit with a thrifty roar, spraying 50 feet

above of pipe. Here, because the oil and gas were still mixed with mud, water and drilling chemicals which would contaminate storage tanks, the stream was "flared."

### GREAT SMOKE RING

It burned with great black clouds of smoke which billowed thousands of feet upward and floated slowly away toward Edmonton. A woman in the crowd exclaimed at the spectacle. Standing near her was George Jones, veteran member of Imperial's production department, who has seen scores of oil wells come into production in Turner Valley and elsewhere.

"Lads," he said, "we don't know whether this is a real oil well yet or not. If it blows a smoke ring I'll say it may be good."

Scarcely were the words uttered when this strange phenomenon of the oil fields occurred. There was a great puff and out of the three-inch pipe end swirled a perfect smoke ring. As lion N. E. Tanner, Alberta's minister of lands and mines, turned a valve to capture the oil and actually start production into the tanks the smoke ring spiraled up and out until it was hundreds of feet across and thousands of feet high in the clear blue sky.

### Tractor Lamps Have Wide Use

Tractor spotlight which may be focused in any direction is being manufactured by Canadian company.

Lamp, of \$3,000 beam candlepower, is said to be weatherproof, durable, easy to install and low in price.

Two new models of tractor lamps are also being manufactured by same company; one model has bracket that enables lamps to be swivelled in any circular or vertical position; the other is of standard construction, sealed beam, low



IT'S ALWAYS exciting job to find out just how much a new producing oil well will bring up in form of crude. Production volume on a new producer is being checked on huge flow gauge here.

## Lumber Prices Show Trend Is Downwards

Actual timber resources of Alberta are at present unknown but a ground and aerial survey which includes the 120,000 square miles of timber lands, is now in progress. A close estimate should be available in 1951.

Production of lumber has increased from 125,000,000 feet, board measure, in 1939 to 366,000,000 feet for the fiscal year ending March 31, 1948, with a corresponding increase in other products.

Prices have had a slightly downward trend. World dollar shortages have limited overseas exports. The United States market has been opened to unlimited export due to domestic requirements having levelled off, but this market is slowing up.

Railway tie requirements were reduced 40 per cent in 1948 and additional reduction is in prospect for 1949-50. With a fairly large carry-over, production in all probability will be lower. Increased freight rates have reduced the export of fire-killed pulpwood to a negligible quantity. Provincial timber reservations have been made for two pulp companies and, should the financial interests decide to proceed with construction at Edmonton and Red Deer, a sharp increase in production will ensue.

## Rich Alberta Is Cornucopia

The basis of trade on any scale is that when local needs are satisfied the true surplus of goods produced, naturally and easily within the community should be traded for an equal value of other goods which other communities produce in excess of their own needs.

That is the trade policy of Alberta. Industries, both new and old, are encouraged in every way possible, and home markets are sought first. These surplus products are shipped to swell the total which makes Canada one of the leading trading nations in the world today.

There are trainloads of butter, cheese and condensed milk... millions of dozens of eggs, both fresh and powdered... huge quantities of the world's finest barley... world championship grains and flour... coal, oil and gasoline... fish, furs and wool... live stock and lumber... clay products and building stone... salt and sugar... potatoes and poultry... and much more... out of Alberta's abundance. They are her gifts to Canada and the world.

Tailored covers of green Vinylite plastic film offer year-round protection for outdoor furniture. May be cleaned with damp cloth. The opaque plastic material is resistant to extremes in temperature, will not crack, peel or stick together, Virginia makes claims.

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Edmonton has established itself as Canada's OIL CENTRE with the discovery of three major oilfields—Leduc-Calmare in 1947, Redwater and Schoepf (Golden Spike) in 1948, all within a radius of 50 miles of Edmonton. Well over 500 wells are in production to date in this area, with an average of 15 wells a week coming into production! The latter field is as great a discovery as the immense Texas oilfields... the total oil discovery at Edmonton being of such magnitude as to favorably affect the entire of Canada! Highlight of the vast building activity in Edmonton is the erection of the mighty ten million dollar Imperial Oil Refinery last year and now in full production.

Future development is well served by the city's huge ten million dollar airport... Canada's busiest! It handles more freight by air than any city in the world. Tonnage in 1949 hit new records... worth close to 20 millions in city business... Landings topped all North America in 1943 with \$2,500 during the war. 1949 will likely reach close to 100,000.

It is almost impossible to paint too bright a picture of the industrial future of Edmonton. Coupled with this is the vast agricultural revenue that flows into Edmonton from the rich farming areas surrounding the city. And the city, lying as it does at the gateway to the north and its mining riches, is on the threshold of development, never before conceived.

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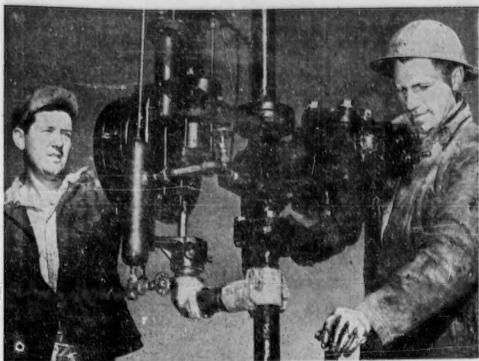
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**FLOW METERS** are carefully checked at new producing well in Redwater oil sector by two keen-eyed experts. Production on each new well is checked for several days before flow rates are set by Alberta Conservation Board. Gas-oil ratio is criterion by which production allowances are fixed.

## Unlimited Power Here Assures Industries Grow

Power is the keynote of the future industrial picture in Alberta. Whether supplied by coal, gas, oil, or power stations, power in the form of kilowatt hours is essential in industrial development. Hydro electric power potentials are unlimited.

Estimated reserves of gas and oil have already been given much publicity along with oil sands. But this power reserve is the reason why established industries will continue to expand in Alberta and why new industries will continue to come to our province.

New industries established and in operation or under construction in Alberta for 1948 totalled about 20. This made employment in the industries for 1,233 and represented capital expenditures of about \$31,876,000.

### MORE INDUSTRIES

To the end of August this year 29 new industries were secured which have either started to build or have purchased property and made definite plans to locate here. This compares with 17 for the corresponding period of 1947.

Industrial prospects for 1949 include chemical plants, tanneries, pulp and paper mills, plywood plant, calcium carbide plant, and chlorine and caustic soda plant. Recent exploration of the rich natural resources of Alberta indicates a close similarity to the fabulous development of the American southwest. Oil is the hub to industrial development in Alberta.

Industry based on agriculture can be expected to expand. Uses of Alberta timber should increase both as a lumber industry and in the new field of pulp and paper production. The advance of the oil and gas industry appears assured, and may in the future be used together with coal in connection with chemical industries. Synthetic fuel plants, plastic plants and synthetic rubber plants are in this category. Although the raw materials are here in large supply, these plants require large capital investments and ample market for both primary products and by-products. At present these are not assured. In view of this, these industries must be viewed as future possibilities with no date attached.

Greatly increased use of natural gas for industrial processes is promised. Recent years have brought significant advancement in technologies of applying gas to industrial processes. Continuing research programs and co-operative efforts of large production industries and equipment manufacturers will further enhance usefulness and consumption of gas.

## Industrial Growth Seen Accelerating

**Prospects In Alberta Brighter Than In Any Area On Continent**

Alberta's present industrial condition paints a picture of growth and the future outlook is extremely bright. The province's industrial development prospects are among the brightest not only in the Dominion—but on the North American continent.

Alberta's minister of industries and labor, Dr. J. L. Robinson, stated, "No recession has been felt in Alberta and it is not expected any recession will be felt for some years."

Barring a major catastrophe the present existing conditions in the province are viewed as the first steps toward the future goal. New industries are needed and are gradually coming to Alberta—new industries being more new industries.

With increased industries come increased population, which in turn gives increased market. Primary industries are followed by secondary industries and, in turn, by service industries.

This effect can be expected throughout Alberta. The province is fairly well balanced with natural resources and natural advantages. The minerals in the north balance with irrigation in the south.

### LABOR ENTHUSIASTIC

From an industrial development viewpoint, one might consider the province to be about 20 years old. There are still certain obstacles to speedy progress. Local markets are limited due to sparse population. However, the province has all the basic requirements for production, namely, raw materials, labor, power or fuel. At present these are developed to an appreciable degree.

"In the labor field, Alberta is in a favorable position," said John H. Overholser, deputy minister of industries and labor. "Wage conditions and labor legislation are generally good, giving somewhat more stability to our labor picture than can be found elsewhere. There is less time off the job in Alberta resulting from strikes than anywhere else in Canada."

Besides all this, Alberta has developed over the years an environment

ment or industrial climate helpful to industrial development. This environment is made up of an optimistic spirit amongst the people generally and particularly among industrial-minded men, a government policy of free enterprise which is encouraging to private initiative, and the activities of both local and governmental boards whose efforts are aimed at assisting industrial development.

"Quick Start" carburetor pre-heater for overcoming cold-starting difficulties in winter weather is said to operate on new principle. At zero, and at temperatures down to 20 below, preheater will start a cold engine despite low battery, while at normal winter temperatures starting efficiency is improved considerably, reducing battery drain.

### Yukon Concessions Needed Seasonably

Persons desiring to operate tourist camps, gasoline stations, or other enterprises along the Alaska Highway or elsewhere in Yukon Territory are reminded that the tourist business, particularly in this part of Canada, is a seasonal occupation. It is therefore apparent that any venture of this nature should be augmented by some other enterprise to be self-sustaining throughout the year. Additional information concerning business opportunities or business licenses in Yukon Territory should be obtained from the Controller, Yukon Territory, at Dawson, or from the Territorial Agent at Whitehorse.

### 'Tickometer' Counting Device Now In Canada

"Tickometer" counting device said to count, date and imprint tickets, coupons and other paper forms up to 1,000 per minute, is being distributed in Canada.

Sealed and inaccessible it's said to be completely tamper-proof. Feeding and stacking is thoroughly automatic. Machine includes a set-back counter which records individual count or partial "runs." Can be set to zero at turn of a knob. At same time, a cumulative total counter takes the count for an entire "run" or for any period of time. Standard model accommodates a

EDMONTON BULLETIN, Saturday, Oct. 22, 1949

variety of tickets and paper forms; thick cards and tags—with cover—on bus tickets to paper cups; considerable range in dimensions, color and from flimsy slips to distributor advice.

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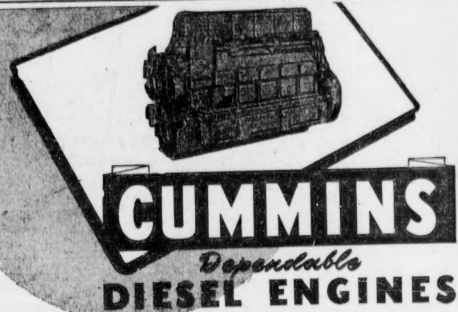
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## UK Factory Chief Lauds Province

Alberta Potentialities Said  
Greater Than Anywhere Else

CHEADLE HEATH, Cheshire, England—(CP)—Potentialities for the establishment of heavy industries "are greater in Alberta than anywhere else in the world," D. T. Barrett, director of Simon-Carves Coke Oven and Washery departments, told a group of Canadian correspondents visiting engineering factories here.

He listed five factors which make that province a likely future industrial center: abundant raw materials; "fantastic" coal reserves; "reasonable" climate; energetic people; and a "co-operative" government.

This company was eager to provide the coke ovens which would be necessary for the development of Alberta's steel-producing potential. When a demand for them arose he was confident British firms would fill the orders.

### NO FEARS

Even before Sterling devaluation British coke oven plant builders could outpace United States competition and now there was little fear of American rivals in the Canadian market.

Because the British market for this type of equipment is virtually saturated, the industry has to live by export and the present government-sponsored drive to boost external earnings had nothing to do with Simon-Carves' eagerness to get into the Canadian field.

The firm has put up ovens in England, Denmark, France, Spain, South Africa and India. In many of these cases—as would be the case in Canada—the bulk of the equipment is actually built under license in the purchasing country.

The contracting firm provides the blue-prints for building the ovens to house the ovens, provides the architects and other technicians to build them, and oversees the making of the equipment which is sub-contracted to firms in the "country" where the coke ovens are being installed.

### NO EFFORT

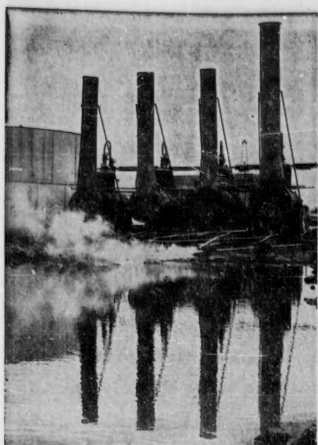
Other Simon-Carves capital equipment had less chance of selling in Canada and the engineering group is making no particular effort to push such things as steam turbines and chemical plants.

But there is considerable hope for expansion in the sale of specialized machinery in Canadian soap manufacturers. In this field the British product is able to compete against its American counterpart.

Manufacturing equipment has been sold to makers in Winnipeg, Toronto and Perth, Ont.



ALBERTANS see so many oil derricks these days they scarcely give a second look. This derrick is at drill site of well in picturesque Woodhead sector of oil fields just a few miles southwest of Edmonton.



STEAM POWER is still highly popular in oil drilling industry. Huge supplies of natural gas for fuel is available in nearly every section of Edmonton oil fields. Four big boilers here provide steam to power drill rig in Leduc sector.

## All Progress Depends On Work of Farmer

Agriculture, "the steward which spreads the daily table of mankind," remains the most important of Alberta's industries. With extensive wheat fields, mixed farming areas and fertile plains, the province is blessed with the means of providing food in plenty.

On the work of the farmer depends the progress of commerce and civilization. Culture begins with and is sustained by agriculture.

Every encouragement is offered through the research and extension activities of universities and departments of agriculture, but unless the man on the land makes full use of the knowledge provided, the assistance offered is of little avail. Indications that Alberta farmers are taking advantage of newer techniques and discoveries are everywhere evident.

The year 1949 was not a particularly happy year for many Alberta farmers. In some areas, satisfactory yields resulted; in others, limited soil moisture reserves followed by spring and early summer drought brought visions of general crop failure. With the coming of year.

rain towards the middle of July, prospects brightened and crops in many areas produced better yields than earlier conditions warranted. Alberta's prosperity in common with that of the Dominion, depends on export demand for her produce. The effect of world monetary adjustment is still in the future, but two things of increasing importance to the Canadian farmer are quality and economy of production. Encouraging progress has been made along both avenues, but the road stretches far ahead and the ultimate in both quality and efficient production is not yet in sight.

It is not impossible, rabbit breeders claim, for one pair of rabbits to produce 261,344 offspring in a single crop failure. With the coming of year.



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Service is something you can't see, smell, or touch. You can't pick it up, inspect it, test it and say, "This is good service." No—when you buy service, you buy certain intangibles that are your insurance of good performance—good service. What are these intangibles? Knowledge, experience, dependability—those are the things you buy.... Dowell was established in the oil fields for just one reason: to put certain chemical discoveries to work where they might best help someone. All the research at Dowell and at The Dow Chemical Company is good research only if it helps you. Dowell men are trained in that concept—Dowell equipment is designed for that purpose. It's not just the physical doing of another job, but rather the active desire to put the things research discovers to work serving you. It is this sincere wish to help that has given Dowell the knowledge, experience and dependability that are back of every job.

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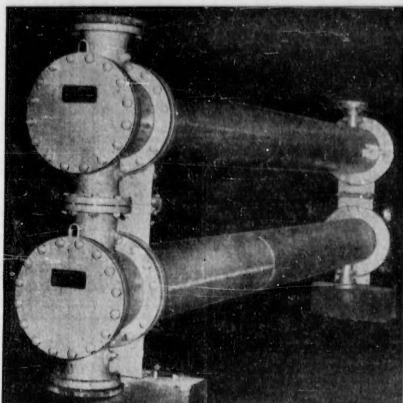
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SCIENCE HAS devised many ingenious tools that assist man locate pools of oil far beneath surface. Murray Merrill, geologist's assistant, uses plane table and alidade here in study of rock formations. All methods help but only drilling really gives final answer on where oil actually lies.

## Royalite Drills' Success Enlarges Scope of Work

A greatly enlarged scale of activity has characterized operations of Royalite Oil Company, Limited during the current year. Tempo of exploration, development and production of one of Canada's largest independent oil companies, has been accelerated to a pace never before achieved.

Operations have embraced exploratory drilling and extensive geological and geophysical surveys of potential oil lands in several sections of Alberta, and continued production of crude oil, absorption gasoline and natural gas in Turner Valley, where Royalite is the largest operator, also development and production of acreage in the Redwaterfield, 35 miles northeast of Edmonton.

In Alberta, this intensive program is already beginning to take definite shape. Royalite is working 600,000 acres of Crown reservations along the Grimshaw highway north of Peace River town. The company has two test structures drill units engaged and results obtained will determine the extent of deep drilling.

### SUCCESS IN REDWATER

On September 12, Royalite placed its 17th crude oil well on production in the Redwater field. The well, Royalite-Redwater 18-5, has an initial potential daily output of 1,500 barrels. It was the first completion on a Crown reserve quarter section bought by Royalite August 28. Two other wells are currently drilling and a fourth will be spudded in shortly. This will complete the four-well program on this acreage, likely the end of October.

### BUY SECTION

Earlier this year, Royalite bought a full section of Crown land in Redwater and has had 16 good



S. F. HEARD  
... Royalite Ltd.

oil wells on steady production since early in June.

The following important events testify to the growth and expansion of Royalite's operations since incorporation:

In 1924, Royalite No. 4 well was brought into production, marking the beginning of large-scale wet gas production in Turner Valley.

In 1925, Royalite constructed an absorption plant in Turner Valley to recover gasoline from natural gas.

In February 1949, Royalite bought at government auction an entire

section in the Redwater field. Sixteen successful producing oil wells resulted. One gas well was also completed to service the company's production operations. Recently a quarter section of Crown reserve in the same field was acquired and is now being successfully developed.

### SUBSIDIARIES DO WELL

Royalite has two wholly-owned subsidiary companies, Madison Natural Gas Company and Valley Pipe Line Company Limited.

Madison Natural Gas Company Limited owns and operates a public utility the most extensive gas gathering system in the Turner Valley field, as well as the only plant in Turner Valley for the purification of natural gas.

Dry gas is sold at the Turner Valley plant principally to Canadian Western Natural Gas Company Limited, which transmits the gas through its lines for distribution and resale to domestic and industrial consumers in Calgary area. Limited amounts of gas are also sold to consumers in the Turner Valley area, and to Royalite for underground storage in the Turner Valley field.

### COMPANY BENEFITS

Valley Pipe Line Company Limited owns and operates as a common carrier the largest crude oil gathering system in Turner Valley and also the trunk lines for transportation of crude oil and absorption gasoline from Turner Valley to the two Calgary refineries. Storage facilities in the valley include tanks and two Mortonheggers with an aggregate capacity of 122,000 barrels.

In 1948, Valley Pipe Line Company Limited transported 4,308,804 barrels of oil products to Calgary.

Royalite and its wholly-owned subsidiaries employ in excess of 611 persons. All employees who are qualified are entitled to very broad company benefits including pension plan, company thrift plan, group insurance, hospitalization and surgical benefits and death benefits.



## To "Traders" in Western Oil Shares

THE astonishing discoveries of Western Oil Companies at Leduc, Woodhead, Redwater, Stettler, Golden Spike (Schroep) and elsewhere focuses attention on the immediate trading possibilities in leading Western Oil producing Companies' shares and the long term investment interest in them.

The important thing for "traders" is to keep swiftly posted on rapidly changing developments. This can best be done by maintaining close contact with any one of our Offices, from whom instant quotations can be had, and orders executed promptly on the most advantageous markets.

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104

## Bankload of Money Needed For Drilling

### Million-Dollar 'Dusters' Show More Than Shoestring Needed

Anybody who wants to drill an oil well may do so providing he has money in large, heavy wads.

For \$150,000 an average size drill rig can be purchased. And this is for the relatively smaller rigs such as used in Leduc, Redwater and Lloydminster fields.

Big outfits, such as must be used for going down deep like at Gulf Oil wells, near Pincher Creek, cost upward of \$500,000.

Anyone who feels like doing a spot of drilling shouldn't forget that the rig is only the initial cost. Cost of drilling often exceeds cost of the rig by far. And of course there is always more than an even chance of the well turning out to be dry as a bone.

### COST \$1,000,000 EACH

Gulf's big ventures at Pincher Creek, where drills went down nearly 15,000 feet, cost more than \$1,000,000 each to drill. But Gulf was lucky at that. The wells are good producers.

Imperial Oil Stetberg well also cost more than \$1,000,000 and there

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Issued: 445,598 Shares (N.P.V.)

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### Holds the Following RESERVATIONS

Ghost River	653 acres—50%
Central South Alberta	110 acres—50%
Wintering Hills	4,480 acres—100%

### OWNS LANDOWNERS' GROSS ROYALTIES

In 1920 acres in Twp. 38 and 39, Rge. 19 and 20, W. of the 4th, in proximity to the new Gulf-N.J. Ellis Discovery Well near Stettler. Vulcan Oils Ltd. also owns gross and net royalties in Woodhead and Leduc acreage; and is now drawing revenue from 4 Continental Leduc wells on Sec. 7, Twp. 2, Rge. 25, W. 4th.

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NEW PACALTA WHITEMUD No. 1





**EVEN AFTER OIL** is brought up from far beneath earth's surface it is still a long way from fuel tank or crankcase of an automobile. Laboratory Expert Jack McAskill is making a routine centrifuge test of oil from a new Redwater field producer. Such tests ascertain presence of impurities in the raw crude.

## Expanding Engineering Firm Helps Independents

Further expression of faith in Edmonton's great oil potential is seen in the new and expanding firm of Murray, Mitchell & Gray Ltd., consulting petroleum engineers, and the only firm of engineers operating directly from the oil centre of Edmonton.

Messrs. Murray, Mitchell & Gray all hold professional engineering registrations and their experience has been gained from some of the great oil regions of the world. Murray, an engineering graduate of the University of Alberta, has had many years of experience in oil areas of Alberta. For some time he was associated with the Alberta Conservation Board, first as a petroleum engineer in Turner Valley, later as the resident engineer for Northern Alberta, and finally as the chief inspection engineer of the board. In these positions, and those that followed later, he gained wide knowledge of the geology, drilling, production and reservoir characteristics of Alberta's productive oil and gas zones.

**IN U.S.A.F.** Mitchell, a mechanical engineering graduate of the Massachusetts Institute of Technology, spent his earlier years in the U.S.A.F. as

Middle East. Mr. Gray gained wide experience in drilling, completion, production problems, reservoir analysis and secondary recovery operations. Since leaving the Middle East in 1946, he gained wide experience in Alberta's lower cretaceous and limestone developments, participating in the Lloydminster boom and latterly in the Edmonton area. Mr. Gray was responsible for the successful completion of the first light oil lower cretaceous well in Alberta.

Anticipating future development of oil reserves, the firm of Murray, Mitchell & Gray Ltd. was formed to assist independent producers and inexperienced capital groups in the acquisition and development of potential areas, and in the evaluation and operation of developed properties.

### Busy Loafers

**CHICAGO—UPI**—If the bakers of this country put all the bread they produced, end to end, they would find they are turning out loaves at the rate of 7,000 miles per day, according to the American Bakers' Association.

## Canada Envisioned Biggest Oil Source

### Extraction From Oil Sands Is Also Likely, Engineer Sure

Belief that Canada may one day be able to produce enough oil to supply world demands for upwards of 30 years, through development of the resources in the Athabasca, Alberta, tar sands is contained in a study prepared for the Canadian Geographical Society by E. M. Holbrook, noted petroleum engineer.

Mr. Holbrook, whose report is published here, states that the Athabasca area contains some 10,000 square miles of oil-bearing sand as much as 300 feet deep.

Thus far, he says, no economical method of recovering the oil has been discovered, but when the method is found Canada will have a "tremendously rich resource, perhaps 100 billion barrels". He believes the tar sands alone seem to be an answer to the fear the world is running short of oil.

Canada, according to the report, is second in per capita consumption to the United States, using about 2,000,000,000 barrels of petroleum every week. More than 70,000,000 barrels are imported, 50 per cent of the crude oil and refined products coming from the U.S.

with most of the remainder coming from Colombia, Venezuela, and Trinidad. Last year more than 4,000,000 barrels came from the Middle East.

### TRANSPORT COSTS HIGH

"It is obvious that the cost of carrying crude oil from these distant fields has no little effect on the price of petroleum products marketed in Canada," Mr. Holbrook points out. "It is equally true that many millions of dollars sent out of the country to pay for the crude oil is a serious drain on Canada's reserve of U.S. funds."

Despite a production of 143,000,

100 barrels and a known reserve of around 1,000,000,000 barrels, Canada's existing oil fields total only about 100 square miles. An additional 50,000 square miles of sedimentary rock, much of which is potentially oil-bearing, has yet to be tapped.

### INTENSIVE ACTIVITY

Important exploratory work, particularly in Alberta, is now going on, Mr. Holbrook states. He says the success at Imperial-Leduc No. 1, 16 miles south of Edmonton, has stimulated more intensive activity in western Canada.

The well found in 1948 near Redwater, was believed the greatest oil discovery in North America in that year. This year's discovery of the Golden Spike well about 25 miles southwest of Edmonton, was found in 545 feet of oil-bearing rock, the thickest ever encountered in Canada.

Mr. Holbrook says that potential production from new fields exceeds both refinery capacity and consumer demand in the prairie. For that reason a 1,150 mile pipeline is being constructed from Edmonton to the Great Lakes to supply prairie refineries along the route and tanker shipments to refineries on the Great Lakes. The line, to cost more than \$50,000,000, is expected to be in full operation by the spring of 1951.

Mr. Holbrook is convinced that

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## Carpentering In Old Days Was Really Work

**NEBRASKA CITY, Neb.**—Ninety-year-old R. Manson has no plans to quit carpentering. He says it's getting easier all the time.

After 70 years in the trade, Manson said he'd "die sure," if he retired. Besides, he said, there isn't so much to worry about any more. When he first started, he said, "we went out into the woods, cut down the necessary timber, hewed the wood and put up the barn right on the spot. It was all hard work. The frames were pinned together with oak pins."

## Longer Lives In Sunshine

**LONDON—UPI**—Britain's sun-felt of sunshine this past summer has given many people up to five more years of life, an official of the British Medical Association said.

"Children particularly will benefit," he said. "The sun's rays contain vitamin D, so essential for prevention of such diseases as rickets."

"People, able to be outdoors most of the summer, will feel much better this winter, and the chances of infection will be correspondingly reduced."

## William D. Glenn Limited

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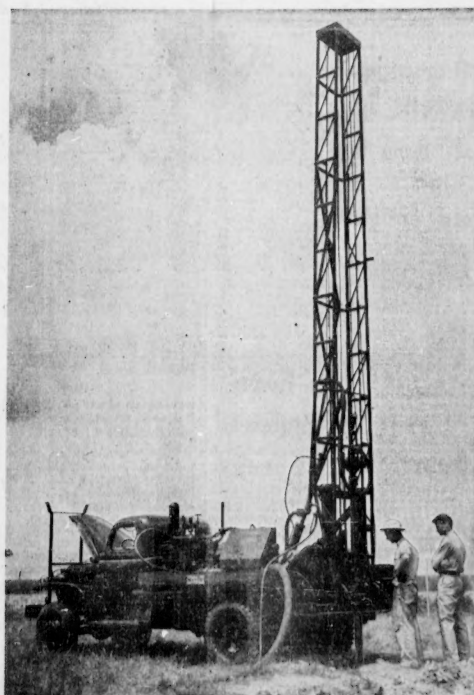
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## Yukon Rules Preserve Both Birds, Animals

Hunting and trapping in Yukon Territory is controlled by provisions of the Yukon Game Ordinance. No person shall engage in hunting or trapping game without being the holder of a valid and subsisting license or permit issued pursuant to this ordinance. Any person whose main occupation is other than trapping shall not be deemed eligible for a trapping license.

For the purpose of the Yukon Game Ordinance, "resident" means any Canadian citizen who has resided continuously in Yukon Territory for not less than one year immediately prior to the date of his application for a license.

Regulations have been enacted from time to time to establish special sanctuaries or preserves for the protection of game and birds and to restrict hunting and trapping in areas where species are believed to be in danger of extermination. Included among such areas are the following:

**Kluane Game Sanctuary**—An area of approximately 10,000 square miles in southwestern Yukon, in the vicinity of Kluane Lake. In this area the hunting, trapping, or molesting of game and birds is prohibited. All lands within this game sanctuary have also been reserved from disposal so that they may be available in their present state for establishment as a national park.

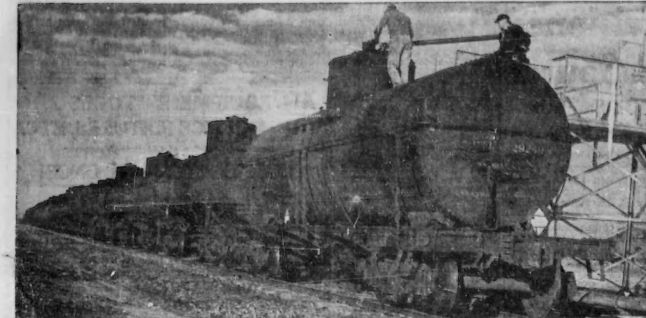
**Peel River Native Game Preserve**—An area of approximately 4,000 square miles in northeastern Yukon, established in 1925 for the benefit of the native Indian, Eskimo and half-breed population, which has exclusive hunting privileges therein. This preserve adjoins a similar game preserve of 3,500 square miles in the Northwest Territories which bears the same name.

**Alaska Highway**—The game ordinance of Yukon Territory provides that no person shall hunt, trap, kill, shoot at, wound, injure, molest in any manner any wild life, including bear, within an area extending for a distance of one mile on either side of the centre line of the Alaska Highway and Haines cut-off road.

## Yukon Information Easily Available

Citizens of the United States or other countries desiring to settle on lands or engage in other occupations in Yukon Territory should apply to the Director of Immigration, Department of Mines and Resources, Ottawa, Canada, for information concerning immigration requirements.

Compact with a wind-shield to prevent mirror from being clouded with powder has been announced by New York firm.



JUST ABOUT BUSIEST rail yard in Alberta is at tiny hamlet of Nisku, 17 miles south of Edmonton. Long strings of tank cars clog sidings every day as huge volume of oil from Leduc sector is transported to refineries near and far.

ume of oil from Leduc sector is transported to refineries near and far.

## New Interest Arises In Yellowknife Mines

The settlement of Yellowknife is situated on Yellowknife Bay, on the north shore of Great Slave Lake, Northwest Territories, at approximately latitude 62 degrees N, longitude 114 degrees W. It is about 700 air miles north of Edmonton and is most conveniently reached by aircraft.

It is the centre of activity in Yellowknife mining district, where the principal industry is gold mining. The population, including that of the surrounding area, is approximately 4,000.

Yellowknife was founded in 1903 following gold discoveries made in the vicinity of Yellowknife river and bay. The settlement expanded as promising properties were developed into producing mines. Conditions brought about by the war necessitated temporary suspension of gold production at various properties between 1942 and 1944, but mining has been resumed.

Reports of remarkable discoveries made in the Giant Yellowknife property in 1944, following an extensive diamond-drilling program, aroused a new interest in the mining field. The year 1948 was one of steady progress with emphasis on prospecting and assessment work to hold claims already maintained in good standing.

Canadian Pacific Air Lines provides regular service daily except Sunday from Edmonton to Yellowknife and return. The trip one way occupies about five hours. Wheel-equipped aircraft land at an airfield located at Long Lake, about five miles by road from Yellowknife. This field service has two 600-foot by 520-foot rolled gravel strips. A land service operates between the air field and the settlement. Seaplane bases have been established at Long Lake and Yellowknife Bay.

## Edmonton City Of Contrasts

The country around the city of Edmonton is the most thickly settled area in Alberta and it is also a very important agricultural district.

By way of contrast, this section also contains the most sparsely settled area in the province, west of Evansburg. Surface, resources and industries present as great a contrast.

Coal is mined around Edmonton and west to Leduc and Cadomin. Lumbering engages many of the towns in the northern districts and in the lakes of this section commercial fishing is carried on extensively. Lake trout being shipped from Cold Lake and Lac La Piche to the big cities of eastern America.

Edmonton, capital city of Alberta, has a population of about 237,000. "The crossroads of the world," Edmonton is a centre of air commerce and travel.

The wealth of the northland pours through her gates, and retail stores for the comfort of northern peoples are gathered at her door, from all directions. Moreover, American civil and military activities associated with the Alaska Highway have made this city their headquarters.

An industrial centre of major importance, Edmonton is the site of a large must-seeing industry. Flour and breakfast cereals are produced there. Bedding, garments and many other important products are made in Edmonton.

East of the city, the Viking gas field supplies Edmonton and intervening towns with natural gas for power and fuel.

When at Vermilion, south to Wainwright and east to Lloydminster there is a young and increasingly important oil industry. Recovered from shallow wells that can be completed in the course of a week or two, the oil is of a quality suitable for many types of fuel.

## Petitioners Can't Believe It's Yes

ATLANTA—(UPI)—Georgia's Gov. Herman Talmadge has found a road-owning delegate that wouldn't take yes for an answer.

Georgia government officials have been plagued with such road delegations. The governor said he had given only one group a definite promise they would get their road, but the delegation kept wrangling with him.

Finally in desperation he called state highway director James L. Gills.

"Jim," the governor said, "I've got a road delegation over here that won't take yes for an answer."

## Oil Shipments Through Suez Mostly for U.S.

The U.S. is becoming increasingly dependent on the Suez Canal because of that country's importation of larger quantities of oil from the Middle East, according to an analysis made recently by Robert W. Leavitt of the transportation and communications branch of the Office of International Trade, Department of Commerce.

Tonnage of shipping moving through the Suez Canal in 1947 and the first six months of 1948 exceeded any previous record. In 1927, peak pre-war years, 36.6 million net registered tons moved through the canal, but for the first six months of 1948 this had increased to 52.9 million tons, a figure which is itself an increase of 27 per cent over the same period of 1947.

Historically, British vessels and British trade have been the largest users of the canal, constituting 62 per cent of the trade volume through the Canal in 1920, and 47 per cent in 1947.

### REVERSAL IN DECADE

Before World War II, Leavitt writes in his analysis published in Foreign Commerce Weekly, "U.S. flag vessels and American foreign trade constituted a relatively small part of total Suez Canal traffic."

"In the 19-year period 1927-1946, vessels flying the American flag constituted on the average 62 per cent of the total net tonnage of Suez traffic. During these years an average of 1,900,000 net registered tons of American shipping moved through the canal annually, and an average of 1,900,000 long tons of cargo moving to and from the U.S. passed through the canal."

The chief characteristic of American trade moving through the Suez Canal since World War II has been the large north-bound movement of petroleum from the Persian Gulf.

Petroleum products had not moved in the north-bound U.S. import traffic of the canal before World War II. Yet, says Leavitt, in the first six months of 1948, a total of 840,000 tons of petroleum products moved northward through the canal for U.S. ports. Preliminary figures for the second half of 1948 show this volume is increasing.

On a 15-month basis, U.S. petroleum imports alone through Suez in the first half of 1948 would exceed the 1929-1936 annual average of 1,900,000 tons of all commodities moving to the U.S. through the canal.

## Rules Given To Homestead

Public or crown lands in Yukon Territory, other than coal lands, normally are disposed of by sale, homestead entry, lease, under regulations approved by the Government. The minimum sale price of crown land is \$10 per acre, and the maximum area which may be purchased in any one locality by an individual is 360 acres.

Any person who is the sole head of a family, as well as any male who has attained the age of 18 years, may make application for a homestead entry on Dominion lands in Yukon Territory covering an area not exceeding 360 acres which is suitable for agricultural purposes. As land in Yukon Territory, exclusive of that within townships, is unreserved, applicants are required to select and stake the land required and forward an appropriate sketch and description when application is filed.

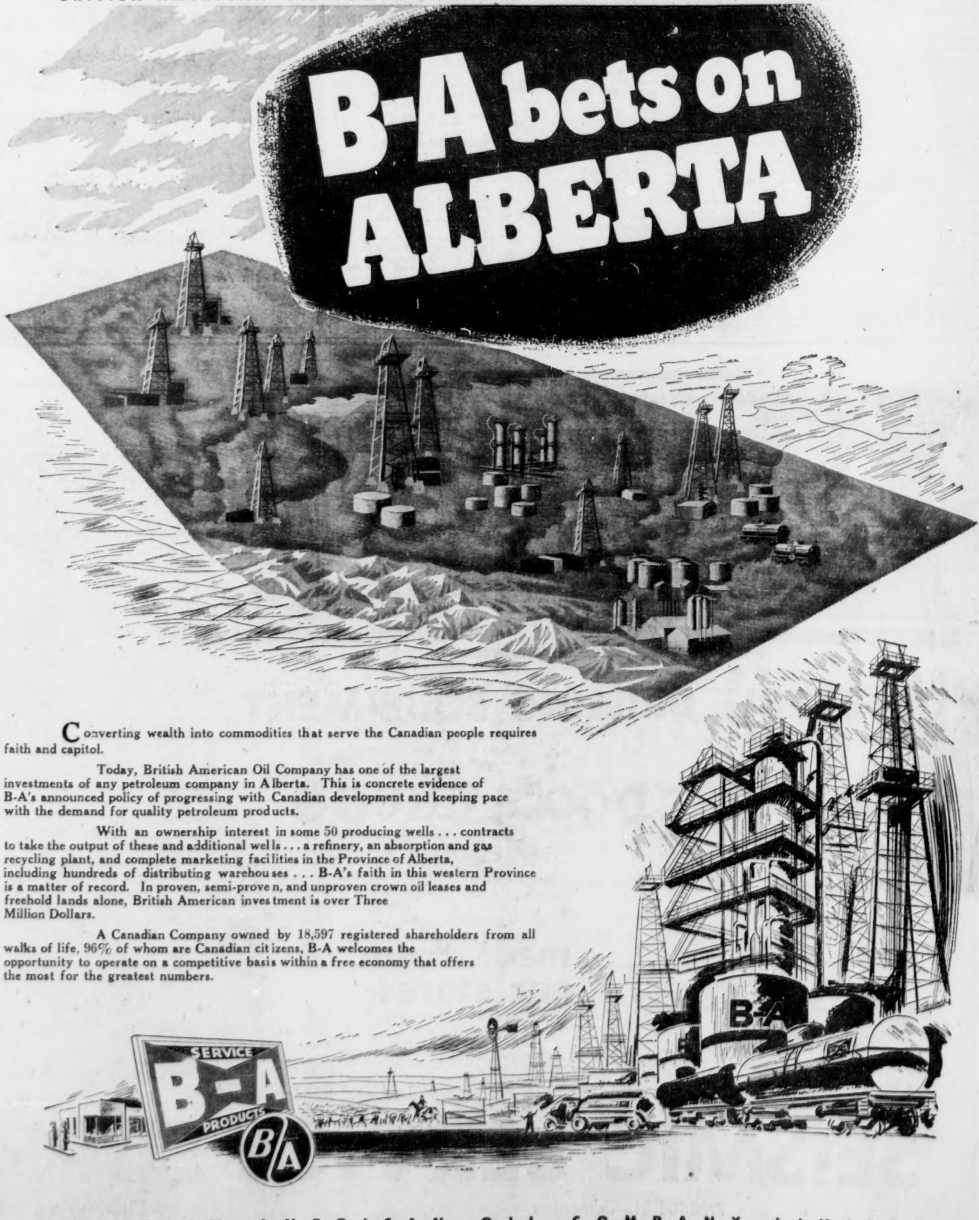
In the case of land situated along the Alaska Highway on which buildings are to be erected immediately or later, the regulations for the provision of tourist facilities, only "permission to occupy" is being given present applicants for land privileges should be made to the Controller of Yukon Territory, Dawson, or to agents of Dominion lands at Whitehorse or Mayo, Yukon Territory, when application forms and additional information may be obtained. Applications for land purchases, leases, or "permissions to occupy" must be accompanied by an application fee of \$5. In the

case of homestead entry the application fee is \$10.

Under the timber regulations fixed dues are charged on timber cut for other than mining purposes or for use in the erection of churches, parsonages, and school houses, or by a bona fide settler to be used on his own land. Application for timber privileges should be made to the Crown Timber Agent (Agent of Dominion Lands) for the district concerned.

"Bents," preassembled lock-downed in Canada for all classes of trade, said to speed the job at hard-to-reach assembly points because there is only one unit to handle. Eliminates hand assembly, thus doing away with fumbling, thus awkward parts and wasting vital assembly time, manufacturer states.

BRITISH AMERICAN OIL COMPANY CONTRIBUTES TO CANADA'S DEVELOPMENT



Converting wealth into commodities that serve the Canadian people requires faith and capital.

Today, British American Oil Company has one of the largest investments of any petroleum company in Alberta. This is concrete evidence of B-A's announced policy of progressing with Canadian development and keeping pace with the demand for quality petroleum products.

With an ownership interest in some 50 producing wells... contracts to take the output of these and additional wells... a refinery, an absorption and gas recycling plant, and complete marketing facilities in the Province of Alberta, including hundreds of distributing warehouses... B-A's faith in this western Province is a matter of record. In proven, semi-proven, and unproven crown oil leases and freehold lands alone, British American investment is over Three Million Dollars.

A Canadian Company owned by 18,597 registered shareholders from all walks of life, 96% of whom are Canadian citizens, B-A welcomes the opportunity to operate on a competitive basis within a free economy that offers the most for the greatest numbers.



BRITISH AMERICAN OIL COMPANY LIMITED



# Potentialities Were Long Hidden

Vast Minerals Unclaimed Until Late In 1930's

During a geological survey of the Great Bear Lake region in 1900, J. A. Macdonald-Bell, of the Geological Survey of Canada, and Charles Cansell, later Deputy Minister of Mines and Resources, observed that the rocks facing the eastern shores of McTavish Arm were stained with "cobalt bloom and copper-green."

Travelling under pressure just before freezing up, the party did not investigate the geology in detail. Not until 50 years later, were the mineral possibilities of Great Bear Lake established.

In 1929, several parties started prospecting in the vicinity of Hunter Bay and the Sloan River. One of these who explored the district was Gilbert Laflin, a prospector trained in the Cobalt area of Ontario. On his return flight from the area last autumn, Laflin noted evidences of silver and copper on a small island in the vicinity of Echo Bay, 80 miles south of Hunter Bay.

The following spring, Laflin returned to the area with his partner, E. C. St. Paul. In May, 1929, they made the great discovery of nicholsonite on what is now named Nicholson Island, at the mouth of Echo Bay.

## STAKE CLAIMS

Claims were staked, trenching and test-pitting were undertaken, and samples were brought to Ottawa, where officers of the Department of Mines confirmed them as high-quality pitchblende, the ore of radium and uranium. Plans for the commercial development of the deposits were subsequently made, and a number of parties for the extraction of radium from the Great Bear Lake ore was eventually worked out, with the exception of metallurgical and the department of mines at Ottawa.

During 1935, Eldorado Gold Mines, Limited, as the company was then called, completed the erection of a milling plant on the property at Laflin Point, Great Bear Lake. A refinery was also constructed at Port Hope, Ontario.

In May, 1935, the first gram of radium was produced at the refinery, and by the end of that year the company was in steady production. Within a short time, Canada had become one of the two important producers of radium in the world. The result was a decline in the price of this substance from \$10,000 to \$25,000 a gram. To meet the problems of transportation, the company gradually developed a system involving the use of power boats, barges, and oil tankers, now known as Northern Transportation Company Limited.

## WELL ESTABLISHED

The production of radium in Canada was well-established by

September 1939, when the second World War commenced, but in June, 1940 the Eldorado company was forced to close down its mine owing to deteriorated world market.

At the time operations were suspended, the Eldorado mine, together with one in the Belgian Congo of Africa, produced virtually the entire world supply of radium. Few realized that the ore from this mine could be the source of materials that would have effects more far-reaching than all the radium it had produced. The splitting of the uranium atom was accomplished in 1939, and was subsequently investigated on a wide scale. When the tremendous possibilities of fission were noted, particularly in application to military operations, the urgency of safeguarding supplies of materials available to the United Nations became apparent. In the spring of 1942, the Eldorado mine was reopened with a minimum of publicity, and after decontaminating was brought back to normal production.

## GOVT MOVES

Early in 1944, the shares of the company were expropriated by the Dominion government. The properties are now operated by a Crown Company known as Eldorado Mines and Refining (1944) Limited. During 1944, extensions to the plant buildings were made, and the shaft was enlarged to three compartments and deepened to provide six additional levels. The concentrate produced at Great Bear Lake are shipped by plane and by other means to the refinery at Port Hope for reduction to radium, uranium salts, and other products. Information relating to the tonnage of ore mined, milled, and shipped has been treated as confidential since 1941.

## Lightweight Saw Power Operated

Lightweight electric tree saw may be used manually to fell or limb trees up to two feet in diameter. When attached to a pole will cut off branches up to one foot in diameter, states Chicago manufacturer. Can be plugged into 110v. ac or dc, circuit, or operated from a small 120v gasoline generator which can be picked up and carried around like a satchel.



IMPERIAL OIL LTD. spent approximately \$8,000,000 on a great modern refinery at Clover Bar, just east of Edmonton but crude oil distribution and refining is still a great problem in Alberta. Picture shows crude distillation unit. Along with recently-completed No. 2 unit, plant now processes 15,000 barrels of oil daily from Edmonton fields.

# Coal Output and Sales Up; Railway Purchases Higher

The output of coal in Alberta up to the end of July for this year was 4,460,733 tons, an increase of 413,825 tons over the corresponding period of 1948. The comparison of sales for this period is as follows:

Market	1948	1949
Alberta	704,436	738,821
Saskatchewan	683,768	570,625
British Columbia	466,198	504,069
Manitoba	281,732	326,259
Ontario	97,340	60,809
Orient	100,460	3,475
Quebec	68	---
U. S. A.	51,075	27,154
Railway	1,276,958	1,600,313
TOTAL	3,666,475	3,941,407

The foregoing figures do not include waste, lifted from stock and lifted from coal used under colliery from waste boilers, used by colliery railways. It will be noted that tonnage used in making briquettes, used in sold to the provinces of Alberta, making coke, put to stock, put to British Columbia and Manitoba

# Alberta Stock Rated Finest in the World

Agriculture in Alberta began 70 years ago with the coming of the first stock. The cattle and sheep of these ranches are about 100,000 pounds of sugar per year. Grain farming in Alberta is not confined to only one section. From the prairies where areas of grain stretch beyond the horizon, to the rich parklands of central Alberta, the great Peace River area, there are produced in 1948, 100,000 bushels of wheat, an equal amount of oats, some 51,000 bushels of barley and 1,000,000 bushels of peas.

Many of these have been turned into grain farms, but there still remain vast areas of this province devoted to the production of cattle, sheep and horses. There are reasons for the importance of ranching in Alberta. The superiority of Alberta range grasses and the use of level land, the state of the land.

First economic success in ranching by the Provincial Department of Agriculture have shown excellent results. Better and wider forage crops are plentiful and the cost of shelter is low. Finally, selling services through exhibitions, hotels, new associations and bus agencies encourage the healthy growth of the industry.

The high standard of Alberta livestock has been proven at national and international competitions. They top the shows and the markets. Forty of the top 100 head of cattle in the world are from Alberta. The dry farming area. Here, too, is the centre of irrigation projects, where roadside ditches are supplied by the Peace River and the Peace River, Alberta is the only province to use this system of farming.

Although 400,000 fertile acres in Alberta are now entirely independent of rainfall, this figure will not be increased several times in the future. It is in Alberta that the great oil industry. There are two refineries

# Water Power Is Abundant

Alberta is famous with a good supply of water-power. The present amount of water-power from four power plants out of the 31 potential sites which have been surveyed and assessed as usable.

Industry has harnessed 60,000 horsepower from the vast potential of Alberta's water drainage basins. Commercially practical and really available, the potential is given as 1,000,000 hp at ordinary river flows and 200,000 hp at average minimum flow.

Another growing industry is an important one in Alberta. The oil industry. The value of 500,000,000 barrels of oil is valued at \$100,000,000. The oil industry will have visited Alberta's potential power and other energy this year.

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The above rig has just completed drilling, electrologging, cementing, and running pipe on 5 wells in 33 days. Total footage drilled, 8,754 feet. This we believe to be a drilling record for both Alberta and Saskatchewan.

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**STATELY DERRICKS**—The derrick and storage tanks are to hold new oil treasures from beneath Alberta's broad trail-lands as great search for oil goes on. Some such as this is becoming

commonplace in Edmonton, hinterland as Alberta exploits her fabulous petroleum riches. New well in rich Leduc is all set for production here.

## Winter's Arrival Will End Initial Work on Pipeline

Winter's arrival in the West has ended the initial work on construction of a 2,000-mile pipeline from Edmonton to Superior, Wis., and back again.

First work was done in the summer of 1918, when the line between the two provinces was surveyed and the route of the pipeline was determined.

From Edmonton to Regina, 435 miles, the pipe will be 20 inches thick. It will have an initial capacity of 50,000 barrels daily, with two pumping stations in between.

At Regina, the pipe will be 24 inches thick. It will have an initial capacity of 60,000 barrels daily, with two pumping stations in between.

At Superior, the pipe will be 28 inches thick. It will have an initial capacity of 70,000 barrels daily, with two pumping stations in between.

At the end of the line, the pipe will be 32 inches thick. It will have an initial capacity of 80,000 barrels daily, with two pumping stations in between.

At the end of the line, the pipe will be 36 inches thick. It will have an initial capacity of 90,000 barrels daily, with two pumping stations in between.

Plans were for the line to end at the Canadian shoreland, but tough sections in the winter made it necessary to go on for the Superior and back.

It was estimated that the line would be completed by the end of the year, but the winter has delayed the work.

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## Water Power Mapped Out By Survey

No comprehensive examination of the water power possibilities of Yukon Territory has been undertaken. The examination of the water power possibilities of Yukon Territory has been undertaken. The examination of the water power possibilities of Yukon Territory has been undertaken.

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horsepower at ordinary minimum flow, but with storage developed upon Mayo lake this might be raised to 14,000 horsepower at the maximum power. The same amount of storage should be developed in the same district a small site offered possibilities of some 240 horsepower at ordinary minimum flow or about 1,400 horsepower at the maximum power.

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Western Propane produces the highest quality—molasses and sulfur free—propane in its 150,000 plant in Turner Valley, B.C. which is wholly owned Western Canadian Company built and operated by local Alberta men. The directors and officers are J. H. Harvey, W. E. Griffith, E. G. Goss, J. H. Harvey and M. G. Pryde. These men assure you of dependable, quality service at all times.

Serving you in the field is Western Propane's competent staff of engineers thoroughly trained in the installation and operation of propane engines. They can show you how to cut your costs by increasing the efficiency of your power operation.

Maintaining a continuous supply in the field is the job of Western Propane's fleet of tank cars and propane powered trucks. No matter where your location Western Propane can serve you.

Above is the \$200,000 plant of Western Propane in Turner Valley. This plant produces over 150,000 gallons daily.



# Run of Liquid Gold Is Held to Trickle

Golden Spike No. 1 Proved Biggest Of Any Canadian Well

Imperial Oil Limited drillers really thought there was a bottomless pit when they were driving down fabulous Golden Spike No. 1 well, 17 miles southwest of Edmonton.

Golden Spike No. 1 is Canada's greatest oil well, with a continuous producing formation 345 feet thick. If Alberta conservation regulations would permit, Golden Spike No. 1 could bring the company in a tidy daily revenue of \$20,000.

That's the amount of money the well would be worth to the company in wide-open production were allowed at the full capacity of more than 7000 barrels a day.

## PRODUCTION IS 2½%

Actually, the well is bringing up more 250 barrels a day, under the system of pro-rating Alberta Petroleum and Natural Gas Conservation Board has operating throughout the province.

Imperial Oil officials are just as happy that Golden Spike is being held down. They wouldn't know what in the world to do with all that oil at the present time for one thing.

For another thing, Imperial is right behind policies to conserve Alberta's great wealth of petroleum.

There was nothing to indicate that Golden Spike would be any more than just another wildcat when the hole was spudded in during the last week of November 1938.

Geologists were hoping to get an answer to a big question. It was whether or not there was a continuation of the porous 133 producing sandstone the general Leduc sector in a northeasterly direction.

## SEPARATE OIL POOL

But Golden Spike No. 1 and other wildcats subsequently drilled in the area gave a negative answer to the question.

Golden Spike No. 1 definitely hits a separate oil pool having no connection with the big Leduc producing field. Canada's greatest producing oil well is a sort of lone wolf of the Alberta producing area.

Golden Spike No. 2, drilled three and one-half miles northeast of No. 1, was a dud. No. 3, three and one-half miles to the northwest of the great producer, was also dry as a bone.

Now the drillers are closing in with No. 4 going down just three-quarters of a mile from No. 1, slightly to the northeast of the big well.

## HAD TO PERSIST

When drillers started going through the 133 formation at Golden Spike No. 1, early results weren't particularly promising. Tests were of an on-again off-again nature.

First favorable test was made at 2001 feet, a recovery of 25 feet of oil mud early in January of 1940. Later it indicated water and the end of a dubious pay section.

Newspaper headlines such as "Schoep No. 2 tests prove disappointing" were followed the next day by the well water report "false alarm."

Golden Spike No. 1 was drilled on the farm of Phillip Schoep, veteran Spruce Grove district farmer, and at first the well went under the name of Schoep No. 1.

## READY FOR SURPRISES

Now Leduc and Redwater had both brought their surprises, and veteran drillers were prepared for almost anything in the way of something brand new in this fantastic new Alberta oil field.

Imperial Oil's first wildcat at Redwater had started the oil world

was passed without the slightest sign of bottom. HAS 545 FEET

Drillers were finally taking of a continental record when the drill at last broke through the fabulously rich pay zone.

Golden Spike was bottomed at 6062 feet with 545 feet of continuous oil-bearing formation pierced. Just to see what Golden Spike could do, the drillers let her go for a short time. Production was rated at nearly 12,000 barrels a day. Then the well went in on a credit production of 250 barrels a day.

Alberta's golden oil well is really well named as Golden Spike No. 1.

## Get Your Coon Dogs

COLUMBIA, Tenn. (UPI)—Columbia built up a reputation years ago as the world's largest street mule market. The mule sales long since moved into barns but now Columbia is known as a leading street coon dog market. Coon dogs are auctioned on the streets on the first Monday in each month.



OIL DRILLERS DEFY icy onslaught of old King Winter as big job of tapping Alberta's vast petroleum resources goes on in every month.

MAN-MADE earthquakes help man to locate oil pools miles below surface. Dynamite charges exploded near surface cause shock waves to flow through earth, which are recorded on seismograph instruments in portable laboratory. Here trained experts study earth shock effect, which indicates contours of limestone structures that may hold oil.

## South Africans Probe Illegal Indian Entries

DURBAN, South Africa, Oct. 22.—(CP)—Widespread investigations are being made by South African police to track down large numbers of illegal Indian immigrants who have been entering the Union for many years.

These Indians, police believe, have come into South Africa not only across the Mozambique border but through the sparsely populated areas of Bechuanaland and even through ports as far south as Capetown.

Arrests have already been made in the Transvaal and Natal.

Police believe the Indians are receiving outside assistance in this biggest evasion of immigration laws in South Africa history.

It is known that natives have in many cases acted as guides in the more remote parts of the Union borders, where the Indians have been picked up by transport and driven to centres deep in the Union.

Most of them have made for Natal where it has been easier for them to remain unidentified among the 200,000 Indians in the province.

## INDIANS QUERIED

The investigations have already involved large numbers of persons in Durban, records of Indians over a number of years are being checked.

Several well-known Indians, including officials, have been questioned.

Some of the Indians who entered South Africa illegally, have appeared in Durban courts and have been sentenced to a month's hard labor. They will be deported after they have served their sentences.

In parliament last June the minister of the Interior, Dr. T. E. Donaghy, announced that arrangements for more intensive patrolling of the Union's borders, notably between Mozambique and the Transvaal, to prevent the entry of prohibited immigrants, were being discussed by the government.

He said 23 illegal Indian immigrants were deported in 1936, 28 in 1937 and 29 last year.

Visitors In Clover WINDHOLSTER, Tenn. (UPI)—Franklin County wants to be sure that visitors will be able to see plenty of crimson clover. Citizens have received permission from the state highway department to plant the seed along all roads in the

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- Complete geophysical survey of an extensive area in the Grimshaw district of Northern Alberta.
- Geophysical survey and exploratory drilling on potential oil properties between Provost and Youngstown, Alberta.
- An all-out search for oil on Graham Island, largest of the Queen Charlotte group, off the coast of Northern British Columbia.
- Seismograph and gravity-meter surveys of oil and gas permit reservations in West Central and South Eastern Saskatchewan.
- Full-scale development of proven oil territory in the Redwater field, 35 miles north east of Edmonton.
- In the Turner Valley the Company is the largest operator in carrying on, in addition to production operations, the purchase, gathering, transportation and sale of crude oil, absorption gasoline and natural gas.

Royalite is Canada's largest independent production and development oil company and one of Alberta's oldest oil companies, with a record of 28 years continuous development of Alberta's oil and gas resources.

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## Roadbuilding New Salt Use

Alberta salt was first processed from brine of a well casing in 1942. Production in 1944 totaled 53,242 tons of salt. The casing was 10 1/2 inches in diameter and 100 feet long.

Alberta salt deposits are estimated at 2,000,000 tons. This is enough to meet the present demands of the entire Dominion for 10 years. Production in 1944 totaled 53,242 tons of salt. The casing was 10 1/2 inches in diameter and 100 feet long.

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TRAINLOADS of machinery roll into Edmonton rail yards as Alberta oil-producing areas grow ever wider. Heavy pumping and diesel power equipment await use.

Mobile step ladder with automatic safety feature is produced by Pennsylvania firm. Ladder is made of aluminum and is mounted on ball bearing casters. It is made of finished steel in standard sizes for easy movement. Rubber-tipped to prevent rolling action and push from one to six steps.

loading here for transportation to new well sites. Modern technology plays a big part in rapid development of Alberta's great new oil areas.

## Electrification Is Rural Goal

The supply of power from running water is almost unlimited in Alberta. Rivers in the mountains rush down through deep gorges to the plains.

Alberta has three drainage basins. Rivers flow only the north and east, and to a lesser extent, to the south.

Electricity in the mountainous area is higher than 4,500 feet and on the east is 2,100 feet.

Water power sites in Alberta, however, present several problems. The fall in a river is now considered of almost insignificant. It is the foundation required which determines the cost of a dam. Further, the flow of water available in winter months and whether or not a low winter flow can be remedied by storage reservoirs, must be considered.

No recent survey of the rivers in Alberta has been made, but an exhaustive study was conducted by a federal commission in 1916. The findings of this study show that there are theoretically 14 power sites in the province. Of this number only four have been developed and from these four a total of 90,000 horsepower are obtained.

The Power Commission established in 1948 is conducting research toward the electrification of Alberta's rural districts.

Hand pump sold to pump 55 gallons of light oil per minute is offered by Philadelphia company for removing liquids such as alcohol, kerosene, gasoline, motor oils, crude or fuel oil, antifreeze, paint thinners, water and grease from drums and barrels. Requires no priming, has no leather or rotating parts to wear out, makes states.

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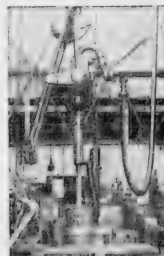
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BE SURE... BE SAFE... USE

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BITS

# Oil Equipment Limited

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ALTHOUGH EDMONTON oil fields are not yet three years old, huge \$8,000,000 Imperial Oil Ltd. refinery at Clover Bar is unable to handle anything like vast volume of crude being produced. While Clover Bar refinery, pictured here, has capacity of 20,000 barrels per day, \$100,000,000 will be spent on a pipeline to Great Lakes area. Other refineries are likely to be built in Edmonton in addition.

## Oil Developments Outrun All Predictions of Past

The buoyant optimism of Alberta's oilmen has become a Canadian legend.

Yet it is doubtful that any optimist in the industry would have dared predict, even in the summer of 1947, that within two years, the province would become the centre of the greatest oil hunt in the history of the west.

Seasoned operators, many of them veterans of two earlier Alberta booms, were speaking cautiously two summers ago of the possibility that ledgers might ultimately restore Alberta's crude oil production to the level it had reached in Turner Valley's heyday.

Later, when Leduc's production began to grow and Woodhead and Redwater emerged as discoveries of major importance, predictions arose that Alberta's crude oil requirements, and perhaps those of the three prairie provinces, might be filled from the increasing recovery of light gravity crude was made in western Canada. In that year, financial assistance provided by the British-American Oil Company enabled Robert A. Brown and George Bell to complete the drilling of their Turner Valley Royalties well on the west flank of the structure to launch the valley on its career as Canada's first major oil field.

It was only 13 years ago, in June 1936, that the first commercial discovery of light gravity crude was made in western Canada. In that year, financial assistance provided by the British-American Oil Company enabled Robert A. Brown and George Bell to complete the drilling of their Turner Valley Royalties well on the west flank of the structure to launch the valley on its career as Canada's first major oil field.

ery, pictured here, has capacity of 20,000 barrels per day, \$100,000,000 will be spent on a pipeline to Great Lakes area. Other refineries are likely to be built in Edmonton in addition.

Early in January, B.A. launched a four-field exploration and development program in Alberta, continuing in part work begun late in 1948. A major part of the work consists of geophysical surveys on which three seismicograph parties are engaged. Exploration is under the direction of four B.A. geologists working from the company's geological office in Calgary and from a new branch in Edmonton.

Reservations or leases amounting to about 500,000 acres were held at the beginning of the year, of which the largest block is in the Leduc area and Turner Valley which, together with other Alberta wells, give it an ownership interest in some 50 wells in the province. B.A. has always sought to encourage independent operators in the field by depending on them

EXPAND B-A OPERATIONS  
British-American, continuously active in Alberta exploration since the early '20s, has expanded its operations from year to year and is currently conducting the greatest exploration and drilling program in the company's history. Appropriations for the current year have been budgeted at five times the scale appropriated in 1948.

completely purchase and development of proven or semi-proven acreage offered through public auction of Crown reserves.

By the middle of September, four parcels of Crown reserve lands had been purchased in the Redwater field, two in partnership with Hudson's Bay Oil and Gas Company and the other two as independent ventures financed exclusively by B.A.

The first two parcels, together comprising 800 acres, were obtained for cash bonuses totaling approximately \$120,000. Section wells have been completed on the two leases which add, and the entire production is delivered to B.A.'s pipeline facilities.

On August 25, B.A. purchased two parcels of Redwater acreage in a government auction for cash bonuses of \$40,000 and \$10,000. The former price covered a quarter section in the northeast position on the field adjacent to the B.A. Hound discovery. It was the highest bonus ever paid for a quarter section in the history of Alberta. Crown reserve sales. The second covers a 16-acre parcel in the northwest part of the field. Both will be developed independently by B.A.

MANY INVEST IN B.A.  
In addition to the 10 wells in the Redwater field owned jointly by B.A. and the Canadian National Company, British-American owns or holds an interest in wells in the Leduc area and Turner Valley which, together with other Alberta wells, give it an ownership interest in some 50 wells in the province. B.A. has always sought to encourage independent operators in the field by depending on them

for a substantial part of its revenue. Investments in western Canada.

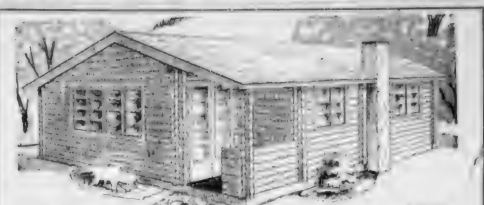
B.A.'s first appearance in the province came in the early 1920s, when it set up its first marketing outlet. Its interest in the province is shown in the trend of its investments alone. In addition to capital investments in refining facilities, pipe lines and marketing establishments, B.A. has invested in Crown oil leases and freehold lands, more than \$5,000,000.

EDMONTON BULLETIN, Saturday, Oct. 28, 1949 15

NEB is the interest extended for Alberta citizens here among their faith in B.A. by the investment of over \$100,000 in the company's capital stock.

Canadian investors can expect dividends slowly, generous and increasing. In fact, especially in periods of low oil prices, they will be able to expect a return on their investment.

**City Freshens Up**  
CHICAGO—(UPI)—Chicagoans are longer used to journey miles to get a "breath of fresh air." Frank S. Chambers, who heads the parks department here, reported the fact that in these parts during August was the lowest in the history of the department. A mere 31 out of a million, he said.



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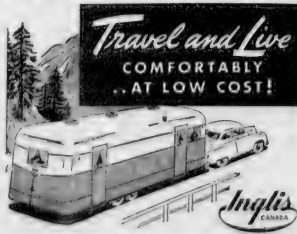
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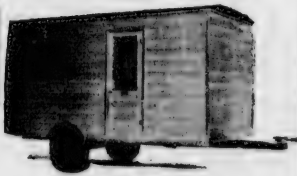
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## Some Strain Ahead, But Future Bright

### Wise Leadership and Plenty Of Spirit To Ensure Prosperity

By Mayor Harry D. Ainlay

The City of Edmonton is experiencing an unusual kind of boom, a boom supported by plenty of oil in the ground. It is not that three years direct was first struck near Leduc but since those years have been without a lull in the life of a city that had witnessed many historical developments.

Just prior to the oil boom Edmonton had experienced a great monetary boom. This city was a boom and bust base for the war against Japan in the north-west Pacific theatre. Thousands of American troops poured in for construction of the Alaska Highway. Two Canal off pipe line and other associated projects.

#### TEMPERATURE INCREASED

The industrial tempo of Edmonton was enormously stepped up almost overnight, so as to speak. Our small civilian annual income was the finest on the continent.

Manufacturing production increased so rapidly that housing became a serious problem.

The family occupation forces had been withdrawn only a short time when the big oil boom was announced.

The annual census placed the population of Edmonton at 22,150 in 1937, a gain of more than 25,000 in population over 1935.

Last summer's population was

## Cuttle-Fish Is Identified

LONDON, Neb.—UP—The existence of the prehistoric giant cuttlefish has been determined by a University of Nebraska scientist.

Dr. Maxim K. Elias, paleontologist, made the discovery from a fossil found in Kansas about 20 years ago.

The fossil was so large, it had been identified as part of a prehistoric sea slug or an embryo of a new type of sea slug. Another specimen was found in 1937.

Measuring two feet up to 600 million years old, the cuttlefish was found in the same strata as the prehistoric sea slug.

He said the giant cuttlefish lived about the same time as the dinosaurs. It was about the size of a modern cuttlefish and had a long neck and a large head. It lived in the sea and was a predator.

Two years, Edmonton's well-being

rested largely on the prosperity of the surrounding agricultural area.

Edmonton controls one of the finest mixed farming areas in all Canada.

This city also has benefited greatly as the gateway and supply depot for the fur and mineral-rich northland.

Edmonton still holds these two primary advantages. In addition she is in the very centre of the greatest oil discoveries in decades.

Industrialization on a large scale lies just ahead for Edmonton.

#### SOME STRAIN AHEAD

But Edmonton's marvellous growth and prosperity is not being obtained without price.

Due to this very prosperity and expansion, Edmonton faces difficult tasks to provide services and accommodation at a time of rising costs and shortages of materials.

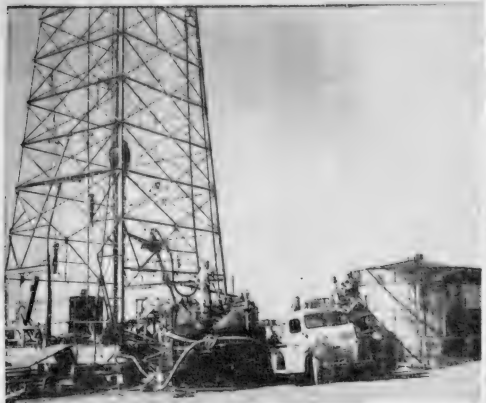
Much has been done already to keep step with the unparalleled development, but their will be further strain and some contraction before the period of rapid growth is passed.

The years ahead will be bright and prosperous if Edmonton has wise leadership and plenty of pioneering spirit.

Edmonton is assured of a glorious economic future. Let's keep Edmonton the friendly city, too.



NO STUFFED SHIRTS are big shots in Lloydminster oilfield. Typical of men developing the 'little man's oilfield' is Jack Mackenzie. He is up-from-bottom driller who is now managing director of Lloydminster Petroleum.



CEMENTING CASING of new well is important job in every oil field. Pumps are forcing cement around casing as time pressure set new well down in production in Leduc sector of fabulous Edmonton oil fields. Cement is necessary to prevent gas pressure from blowing down and cause water's surface.

## Pittsburgh Plans Great Urban Development Scheme

By James I. Holton

PITTSBURGH, Oct. 22.—(AP)—The greatest urban development project that ever took place, the most complete and most brilliant example of ultra-modern architecture and urban planning in northern America, is being planned in Pittsburgh.

A group of pioneering business men, representing the city's largest firms, plan a \$70,000,000 development job will be the "Gateway Center"—that will range from a government building to a new university of day business and shopping centre, skyscrapers linked by a network of bridges, big parking lots, new homes, schools, and landscaped parks, and a new airport.

#### GOLDEN TRIANGLE

The "Golden Triangle" is the area between the city's three main business districts. It is the area where the city's future will be built. It is the area where the city's future will be built.

The "Golden Triangle" is the area between the city's three main business districts. It is the area where the city's future will be built. It is the area where the city's future will be built.



OIL IS a major part of the growth of the city. It is the area where the city's future will be built. It is the area where the city's future will be built.

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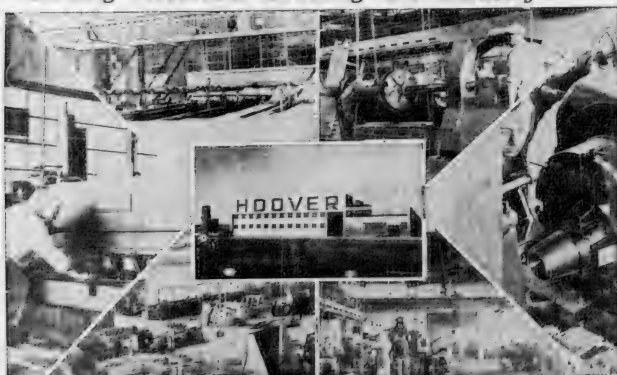
- E. H. MURRAY, P.Eng. ..
- A. H. Mitchell, P.Eng.
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Mr. Curtis Hoover, President of Hoover Machine Company, extends an invitation to Oil Producers and Drilling Contractors to visit the plant and to inspect the recently formed Oil Well Service Department.

This new department includes a specialty built Miller's Thread Mill—the only one in Canada—ensuring sub and tool joint service of unsurpassed speed and quality. Pipe racks, presses and many other facilities ensure speedy, reliable service to the Alberta oil fields.

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- Stubs
- Tool Joints
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• Edmonton



Mr. CURTIS HOOVER

# First Leduc Oil Well Tough Battle

## Leduc No. 1 Was 118 Miles, 28 Years To Completion

It was a devilish hole! It added in as a cable tool test at Czar, in eastern Alberta, in 1910. It sampled the strata at Wainwright, Rimbey, Red Coulee, Riley, Vermilion, Peace and a host of other Alberta locations. It wandered over into Saskatchewan.

It had tough drilling at Stobog, Colquhoun, Wainwright, Peace, Red Coulee, Jumping Horse and numerous other foothill structures. It had to cut off a tremendous gas flow at Kinsella but otherwise it was not an adequate showings of oil.

The final 5,000 feet of drilling was done by rotary at Leduc. The production was obtained in the Devonian limestone.

**LEDCU STORY**  
That, literally, is the story of the Leduc Discovery Well. It was not a promiscuous "wildcat" that met with immediate success. It was the culmination of years of systematic effort.

It was the final descendant of 62,600 feet of exploratory drilling. It was the first fruits of an expenditure of millions of dollars.

Western Canada has 500,000 square miles of prospective oil territory. A lot of oil can come out of one square mile, but first you have to find it.

Imperial Oil geologists started looking for "a needle in a haystack" back in 1910. They scoured the plains and the hills and followed the rivers to the Arctic.

**GEOPHYSICS BEGAN**  
As science progressed they were joined by the geophysicists who made wide reconnaissance surveys with their gravity meters and more detailed investigations with their seismographs.

Core drills put down hundreds of holes in areas where heavy surface deposits defied the deductive reasoning of the geologists.

Philatelists with their microscopes examined these cores for tell-tale evidence which would tell the size of the rock and, perhaps, give a hint of its possibilities. Thus, with increasing vigour as the years went by, science sought to find areas where drilling would be justified and might be successful.

The saga of the oil driller will be written in the hills and the northern waterways. He has drilled 62,600 feet of wildcat hole for Imperial Oil alone.

Like Oliver Twist, he has always come back for more. Lost tools

great morale builder for tool pushers and their crews.  
Imperial Oil Ltd. is in the oil business in Canada from coast to coast. To serve its customers, it must supply its seven refineries with crude oil. The farther it has to go for crude the heavier the transportation charges are and those, of course, are part of the cost of the finished products.  
Only one out of every 10 barrels processed at Canadian refineries comes out of a Canadian well.

**WATERBURY HIGH**  
That and the saving of foreign exchange are strong reasons for trying to boost Canada's domestic production.

Who will benefit from Leduc? One out of every eight barrel of oil taken from the field will go to the royalty holders. The government, as the largest holder of mineral rights, will reap the greatest return.

The individual royalty owner will have a steady annual income as long as the wells continue to yield.

**BUSINESS BENEFITS**  
Business in the oil community will flourish. There will be more people with more money to spend. There will be new construction.

Oil installations and homes for the prospectors will be built. Leduc was a

workers; there will be road building and maintenance; there will be a constant coming and going of these on business and those who merely come to look and marvel. There will be an oil refinery at Edmonton.  
But if Leduc should prove a major field, if similar success is encountered elsewhere in the area, then the influence of Leduc will expand like the ripples caused by a pebble tossed into a quiet pool. The importance of an adequate supply of domestic crude in Canada is incalculable. And when we say "adequate" we are talking of millions of barrels. For Canada needed 15,000,000 barrels of crude in 1946 and only one barrel in ten was "home grown."

## Wolf Hand-Picks His Date List

TUSCALOOSA, Ala. (UPI)—Some "wolf" on the University of Alabama campus has the best prospective date list all pretty coeds hand-picked.

The girls realized what was happening only after they had gathered after registration this month. The fellow with the date list was helping out in registration.

The distance of a light year is about six trillion miles.

## Forests Belie Prairie Term



Alberta is called a prairie province, but the term, meaning treeless, applies only to a small section of the land.

More than three-quarters of the province is covered with trees, much of the growth being of non-merchantable size. Even in the central parklands, scattered bluffs of poplar, populus, poplar and linden for light building and willow for fence posts. Here, too, is saw material for much of the fuel needs of the people.

But the real thin-landedness occurs east of the Rockies and in the northern half of Alberta. Here are 20,000 square miles of forests—containing some thirty billion cubic feet of saw and pulp material.

At the present time, Alberta's lumbering industry might be said to be in its infancy. With a capital investment of \$4,000,000, the annual production of one mill is 175,000,000 board feet of lumber.

There are some 400 sawmills in operation, plus another 500 portable mills, aggregating employment of some 15,000 men. The province is sixth in Canada in value of lumber production.



**GETTING JUST** right weight when drilling an oil well is ticklish business. Driller keeps watchful eye on weight indicator as drill churns through formations far beneath earth's crust. Rock, shale, sand and coral are all encountered at different stages of drilling oil well. Each formation requires different weight on drill.

## At 90 Gives Pearls In Return for Smile

By O. H. P. King  
TATOKU, Japan, Oct. 22.—(AP)—The man who found it paid to irritate oysters now lives only to please people. He does it by giving them pearls.

Kokichi Mikimoto's pearl "farm" dates back to 1878.

By dint of patient experimenting, Mikimoto as a young man perfected a way to make sure every oyster would produce at least one pearl. The process itself is simple enough. A toothed ball of clam shell is inserted in a young oyster and the oyster then is returned to the bay. When it is retrieved years later, a pearl has grown around the irritating piece of shell.

As a result, Mikimoto is one of the wealthiest men in Japan.

Cultured pearls are bought by the thousands, the largest costing from \$5 to \$10 each. Pearl farming is a thriving industry.

Mikimoto, 90, still lives like a peasant and he likes people to like him. He has hundreds of guests each May to October season. Each is given one or more oysters containing from one to four pearls. To some favored guests Mikimoto also gives pearl necklaces.

Most of the pearl farm's several hundred employees are women and girls. Even the pearl divers are girls.

The name Mikimoto is well known in Japan and the spry old character wants it to become world-famous as well. He is an avid publicity lover.

The ambition of the happy pearl king is not to add to his wealth, but to make his name well-known.

## Alberta Is Stirring Giant

Coal is found in vast deposits underneath the farms, cities and hamlets of Alberta.

Estimated coal reserves proved and accessible in the province for present day mining add up to over 46,000,000 tons. On the basis of present production, the known available coal reserves in Alberta are good for about 4,000 years.

Coal seams in Alberta have a wide distribution in the Cretaceous formations of the province. The coal-bearing beds occur in three different horizons. The oldest horizon in the Blairmore-Kootenai formation is Lower Cretaceous in age.

The two younger horizons are of Upper Cretaceous age and occur in Belly River and Edmonton formations. The oldest and most mature seams outcrop within the front ranges of the Rocky Mountains and are at present mined at a number of places in the Crowfoot Pass, at Camrose, Netherford, Mountain Park, Cadomin and Leduc.

The coal seams in the Belly River and Edmonton horizons occur in the foothills and plains and are mined in scattered places throughout the province.

Alberta's coal is largely bituminous. There is some anthracite coal in the province, but large commercial quantities have not been found.

In the development of her brown coals of Europe, Alberta coal is far superior in quality. The most usually accepted theory to account for Alberta's vast subterranean wealth is that the province was once covered, following the ice age, with a tremendous sea of water—far larger than any lake now on this continent.

When it dried up, the result was salt, oil, natural gas and dozens of other unexplored minerals. Whenever the cause, the minerals are there.

Alberta has paint shales, talc deposits and limestone, active cement factories and ceramic industries, fertilizer and ammonia plants. The gas is stirring, and the rumblings of a coming industrial revolution can be heard in every corner of Alberta.

Grand Coulee Dam in eastern Washington is the world's largest concrete dam.

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This modern rotary rig is located in a wheat field at the edge of the Woodland field near the North Saskatchewan River.

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STEAM is still used for turning oil shafts in Edmonton oilfields but diesel engines do most of drilling. Here an old-fashioned steam-powered rig belches clouds of smoke

at well in Leduc oil sector. Drill rigs operate 24 hours daily through winter cold and summer heat.



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## Alaska Road Links Yukon To Oil Fields of Edmonton

The highway system in the Yukon Territory, which has been the subject of a long and arduous campaign by the Canadian government, is now being completed. The road will link the Yukon Territory with the rest of Canada, and will provide a direct route for the transport of goods and passengers. The road will be built in stages, and will be completed by the end of the year.

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NEW WEALTH and power are assured Edmonton at center of great new connecting oil field, says Oliver C. McIntyre, vice-president of Edmonton Chamber of Commerce.

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**LOOKS LIKE** cold war is finally under way, doesn't it? Actually, military-looking figures shown here are merely peaceful members of seismograph crew, working in snow-covered fields close to Edmonton. Pair is readying dynamite charge that will set off tiny earthquake. Seismograph tests give geologists valuable information about formations far below surface.

## New Zealand Solves Steel-Making Problem

WELLINGTON, N.Z., Oct. 22.—(CP)—After many years of experiment, a way has at last been found of using the millions of tons of iron sands which line part of the coast of New Zealand's North Island for more than 100 miles. Hitherto, smelting difficulties have prevented this rich source of iron from being put to commercial use.

New Zealand has only very small supplies of iron ore and so far has no iron and steel industry. The iron sands of the west coast of the North Island have for years been a challenge.

They are easily accessible, close to good roads, railways and ports, and have a high iron content. Now numerous problems have been overcome by British and New Zealand experts brought to the country by the government and a large-scale test has been conducted with a specially built electric furnace.

After the furnace has been operating for three times a day, the minister of industries and commerce, A. H. Nordmeyer, announced that there were now no technical difficulties in the way of establishing an iron and steel industry in New Zealand.

The experiments had proved not only that the iron sands could be used but also that they could produce an excellent finished product.

**EXPORTS NEEDED**

The future of the industry is now largely one of economics. New Zealand is too small to support an iron and steel industry of any great size on its own. A considerable export trade would be necessary.

There is thus a possibility that the New Zealand development may radically change the whole iron and steel supply position in the Pacific.

The sands are sufficient to support a large-scale industry for very many years.

## About 300 Wells Produce At Lloyd.

### Asphalt and Fuel Oil Provide Best Promise of Big Market

Residents in the bustling border town of Lloydminster say: "Leduc and Redwater got the headlines but Lloydminster is the oil field."

Because Lloydminster residents are too modest for much boasting, it isn't as generally known that the Lloyd field is the largest heavy crude producer on the continent.

Approximately 300 wells are producing and the present proven area has a reserve estimated at 500,000,000 barrels.

The field also has a rich natural gas potential estimated at 25,000,000,000 cubic feet.

**HALF OIL IS ASPHALT**

Lloydminster crude has a 50 per cent asphalt base. Ideal for highway and street black topping and bituminizing. Roofing materials and wood preservatives are also obtained from the thick, black crude.

Fuel oil for railway locomotives is another by-product of Lloyd crude. Some gasoline is also obtained.

Lloydminster crude caught the national oil spotlight first in 1942, when Spaszyk No. 1 came in as an oil producer just four miles inside the Alberta border.

Gas wells were brought in back in the mid-1930's and the Saskatchewan side of Lloydminster became the first town in that province to have homes of residents heated with natural gas.

The field built up slowly in the following years until 1947-48 when drillers swarmed into the area to produce asphalt.

Drilling costs are much lower than elsewhere in Alberta because of greatly reduced footage to producing zones.

The crude wells are mostly on pump as the water-gas drive that lifts the lighter oil found in Leduc and Redwater sections is not present.

Producing structures of heavy asphalt and average about 350 feet in thickness.

Chief difference between Lloydminster crude and the crude of Leduc is gasoline content. Heavy black crude of Lloydminster contains only about five per cent gasoline while in other Alberta fields it runs as high as 50 per cent.

**BOTH RAILWAYS BUY**

Temporarily, Lloydminster oil is up against a marketing problem. Ample supplies of lighter crude from other fields, high freight rates and the eight per cent fuel tax have slowed down production to a large extent. But there is light on the marketing horizon for Lloydminster.

Both CNR and CPR are rapidly converting grainie locomotives from coal to oil fuels.

Asphalt for highway blacktopping will be needed in ever-increasing quantities. There may be more equitable freight rates for crude in the no-odd-distant future.

Lloydminster will still boom large as the Alberta petroleum picture.



**TRIAL AND ERROR** still plays a big part in life of a geologist. No picture of what lies below surface of old mother earth is ever clear until drills have completed their work. An Imperial Oil Ltd. geologist here examines sample of rock brought to surface in core drilling of Redwater area, north of Edmonton.

EDMONTON BULLETIN, Saturday, Oct. 22, 1949 19

Now miniature electron tube is said to be capable of turning an electric current on and off 5,000 times a second. Uses of tube include control of flashing of animated television signs and the 2000 systems of stock market quotation boards.

Three-purpose tray molded of Bakelite phenolic plastic in variety of modified colors is said to give an interesting. The lightweight tray holds four glasses and is their own company, drop-proof, even when it is tipped over.

### CRACKED CASTINGS

Mud Pumps, Housing Covers, Bases, Diesel Blocks, Heads, Crankcases.

All Types and Sizes of Machine Castings Soundly Repaired by the Heatless, All-Mechanical Harman Process.

### ADVANTAGES OVER WELDING ARE:

1. Original strength restored, with no hidden strains.
2. Dismantling—little or none usually required.
3. Alignment—unaffected and repair nearly invisible.
4. Mobile—heavy castings can be repaired in place.
5. Guaranteed fully if no previous welding attempted.

**Kirk's Metallizing Works**

Edmonton 11718 Fort Road Phone 7355

LICENSEES

Calgary 1433 8th Ave. East Phone E-525

## ATLANTIC OIL COMPANY LIMITED

**HEAD OFFICE**

304 Toronto General Trusts Building

CALGARY, Alberta

## HOW TO FEED AN OIL BOOM!

There's a lot more to developing an oil field than sinking a well. Capital must be invested; supplies must be purchased, and the entire project nursed along with credit, where it is needed, to keep it running smoothly.

From the beginning of recent oil and gas developments in Alberta, The Bank of Nova Scotia has realized their importance, and has given assistance wherever it could. Here are some of the ways we help:

1. We are bringing to the attention of Canadian business men the tremendous possibilities of "Black Gold" in Alberta.
2. Through advertisements, and visits from our special representatives, our American friends are kept advised of development possibilities in Alberta.
3. Credit is made available to suppliers and producers.
4. A special issue of the Bank's Monthly Review, entitled "Black Gold in Alberta," was a graphic, up-to-the-minute report of Alberta oil and gas. This issue, which included a large-scale map of oil and gas fields, went to thousands of businessmen in Canada and abroad. A copy is available on request.
5. On-the-spot banking service is provided through our Alberta branches.
6. Our Alberta branch managers are trained to give financial counsel and assistance to businessmen interested in the oil developments.

By services such as these, The Bank of Nova Scotia hopes that it is not only helping those directly connected with oil and gas production, but that it is aiding in the development of resources which will add to the prosperity of Alberta and will benefit greatly our national economy.

## THE BANK OF NOVA SCOTIA

N. R. CAMPBELL, Manager, Edmonton Main Branch,

## Indispensable to the OIL INDUSTRY!

- DRILL STEM TESTING
- OPEN HOLE TESTING
- CASING TESTING

24 HOUR SERVICE

**NORTHERN TESTING Laboratories LIMITED**

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# SERVING YOUR COMMUNITY

## ATLAS TIRES



*Backed by the*

**IMPERIAL OIL GUARANTEE**

*good at 38,000 dealers*

If you are a little confused by conflicting tire claims, pin your faith to an ATLAS. All you have to know about this first-line, first quality tire is that it is backed by Imperial Oil, Canada's oldest and largest oil company. Imperial can't afford to sell anything but the best and the Imperial Oil Warranty is your assurance of complete tire satisfaction.

Over 26 million Atlas Tires have been sold in Canada and the U.S.A! Buy Atlas for quality and good value. We have the right size for your car.



**YOUR IMPERIAL OIL DEALER**

## CAR LUBRICATION BY CHART



**— NOT BY MEMORY**

When you bring your car to us for a lubrication job, you can have confidence that it's done right, with the correct grade of oil, correct adjustments at the correct price.

We don't depend on memory—we depend on the manufacturer's lubrication chart for your car to make us follow all the lubricating points are.

Regular, thorough lubrication is your best insurance against repairs, motor loss, guarantee & extra money of roadside service.



**YOUR IMPERIAL OIL DEALER**

Your Imperial Oil dealer is an independent business man in your community. He has an experienced staff that is equipped at all times to protect the investment you have in your car. He has the facilities to prevent car troubles before they start. Preventive maintenance is worthwhile economy. See your Imperial Oil Dealer now.



Today's  
largest-selling  
motor oil...

**MARVELUBE**



*At Imperial Oil Dealers*

**EVERYWHERE IN CANADA**

**NOW IS THE TIME  
TO CONDITION YOUR CAR  
FOR WINTER DRIVING**

## RED FLANNELS FOR YOUR CAR!

Your car needs winter protection just like you do. Now's the time to get it—and we're all set to give it the way you like. Drive in and we'll...



- Change summer crankcase oil to correct winter grade.
- Change transmission and differential lubricants to correct winter grades.
- Lubricate chassis thoroughly—every point covered with the right oil or grease.
- Fill radiator with antifreeze.
- Check tires and battery.
- Check lights, oil filter and radiator hose.

It pays to "winterize" your car before it's too late. For prompt, thorough service that you can depend on, make a date with us!

**YOUR IMPERIAL DEALER**



## ATLAS BATTERIES

**Carry an Imperial Oil Warranty**

When you buy a new battery you want to be sure of good value. ATLAS Batteries carry a written Imperial Oil Warranty. That means Canada's oldest and largest oil company stands back of the Atlas. What better assurance could you have that this battery is a leader in rugged, dependable quality?

More and more Atlas Batteries are being bought because motorists say "If Imperial Oil is back of it, it must be a really good battery. They can't afford to sell anything but the best."

We're proud to sell Atlas Batteries—and we'll be pleased to install one for you, or just show you one—or maybe just check the condition of your present battery. Drop in any time—we're at your service.



**YOUR IMPERIAL OIL DEALER**

# IMPERIAL OIL LIMITED







ALBERTA IS engaged in stupendous pipeline project at Edmonton in vicinity of Waterways. It is the work of a Canadian Government and the province. The project is a major step in the development of the province's oil resources. The project is a major step in the development of the province's oil resources. The project is a major step in the development of the province's oil resources.

## Devon's Attractions Lure Druggist From Retirement

Dr. J. H. Devon, a well-known druggist and chemist, has decided to leave his retirement and return to the active life of a druggist. He has been in retirement for several years, but the attractions of the oil industry have lured him back. He is now working for the Devon Oil Company, which is engaged in a large-scale project in the province. Dr. Devon is a well-known figure in the community, and his return to work is a source of interest to many.

## Gas Conservation Vital to Oilfield

### Modern Methods Prevent Waste Of Oil In Fields

When a new oil well is brought into being at Leduc it is attended as carefully as the birth of a child in one of our modern hospitals.

But wasteful. These waste are not only a loss to the oil company, but also a loss to the province. The oil company must use modern methods to prevent waste. The oil company must use modern methods to prevent waste. The oil company must use modern methods to prevent waste.

CONTROL THE RULE. The oil company must use modern methods to prevent waste. The oil company must use modern methods to prevent waste. The oil company must use modern methods to prevent waste.

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energy that comes from the oil. The oil company must use modern methods to prevent waste. The oil company must use modern methods to prevent waste. The oil company must use modern methods to prevent waste.

WELLS NOT WASTEFUL. The oil company must use modern methods to prevent waste. The oil company must use modern methods to prevent waste. The oil company must use modern methods to prevent waste.

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GAS GONE TOO FAST. The oil company must use modern methods to prevent waste. The oil company must use modern methods to prevent waste. The oil company must use modern methods to prevent waste.

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## Princess Petroleums Limited

HEAD OFFICE:  
304 Toronto General Trusts Building  
CALGARY ALBERTA

## Superior Oil's Joseph Lake Discovery Becomes an Oilfield

The Joseph Lake discovery, 20 miles southwest of Edmonton, became an oilfield when, on September 25th, Superior-Joseph Lake No. 3 well produced at a rate of 40 barrels an hour on test. The well is being completed at current depth (3,284 feet, in the Viking sand) and should go on production by the first of October.

This is the third success in this area drilled by Superior Oils Limited in conjunction with General Petroleums Limited, Kroy Oils Ltd. and Jupiter Oils Ltd. This group shares an interest in a 9,000-acre seismographed block on which the three wells have been drilled. It is planned to keep the General Petroleums contract rig in steady operation in the area, with two more wells expected to be drilled and completed during the next four weeks.

### SUBSTANTIAL INCOME

Superior Oil Limited derives a steady income from its two-thirds interest in sixteen producing wells in the Blackfoot area of Lloydminster (oilfield) owned by General Petroleums Ltd. There are still sixteen offsets to be drilled in this area.

### LARGE LEASES

This progressive company is interested in about 3,715 acres of leased land and about 1,859 acres held under reservation in the province of Alberta in Saskatchewan. Superior has a discovery and a one-quarter interest in about 30,000 acres, an extensive exploratory and development program.



Listed on the Calgary and Vancouver Stock Exchanges

## DRILLING For Oil Could Be Confusing



The Oil Industry has its own terminology that is not always clear to the average reader, but more puzzling still to the uninitiated is the language, and slang, used in the field. Here are a few specimens.

### THE WATER MONKEY

refers not to some new zoological specimen, but the man who looks after the pumping unit and waterline which supply water to the drilling

### THE NIPPLE CHASER

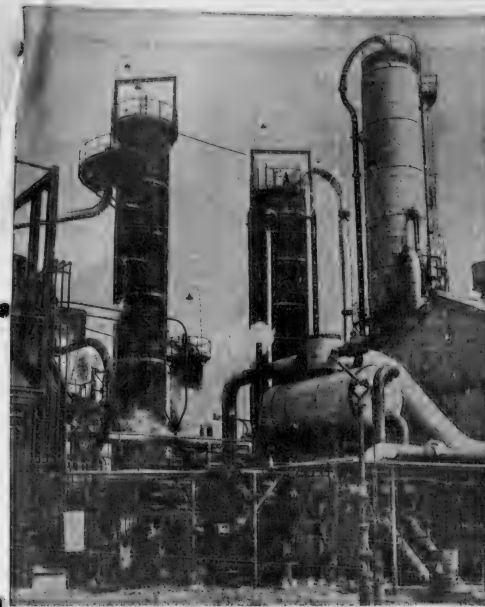
is the man who is in charge of the drilling rig. He is the man who is in charge of the drilling rig. He is the man who is in charge of the drilling rig.

### A RAPIDLY GROWING COMPANY

This company has in a very few years become one of the leading oil companies in the province. It has a large number of wells in production and is engaged in a large-scale project in the province. It has a large number of wells in production and is engaged in a large-scale project in the province.

Drilling for oil is more than a colorful occupation. It is the vital part of an industry that is already contributing substantially to Alberta's prosperity and is still growing rapidly.





FRACTIONATING towers on Imperial Oil Ltd., \$8,000,000 refinery on eastern outskirts of Edmonton were trucked more than 1,200 miles to Edmonton from Whitehorse. Almost entire refinery, built at terminus of Canal pipe line during last war, was re-constructed on site of Imperial Oil Company's Clover Bar plant.

## Collectors of Jazz Platters Pay Fancy Prices for Some

CHICAGO, Oct. 22.—(AP)—There may be a pot of gold hidden in the dusty phonograph records in your attic. Jazz record collecting is big business, and collectors' items bring good prices.

George Hoefler, writer for Down Beat magazine, jazz critic and long-time collector, lists two King (Gennett 5275). The owner of this record, Hoefler is listed in a safety deposit box. The other record, "You Want My Heart," and "I Would Bring \$10,000."

There is only one known copy of Sweet Something Dear," on Gennett 5276, is known to exist, but has never turned up.

Any discussion of prices, Hoefler emphasizes, presupposes that the record is in "mint" condition. Prices decline in geometric ratio to the amount of surface wear to which a waxing has been subjected. But even a "poor" condition record can fetch a high price.

In general, Hoefler says, the best collector's items are to be found on white label Vocalion, and Okeh, Gennett, Q&A, and Paramount.

Little having 30 spindle speeds ranging from 11 r.p.m. to 77 1/2 r.p.m. is designed especially for maintaining large diameter work that is not excessively heavy. Wide range of spindle speeds permits machining all work within the capacity of the lathe at efficient cutting speed.

Just Okeh records, went for

### SEVERAL IN \$50 CLASS

A disc is considered a collector's item when it contains good jazz (sometimes only a phrase or two by a well-known artist), and when there are not enough copies to satisfy demand. This can be due to a small original pressing, or to the fact that many musicians recorded under pseudonyms and their work was not recognized until after copies were lost. One carded or widely dispersed.

If you have some old records on the Q&A label by Earl Hines, they'll sell, Hoefler estimates, for \$50 each. They were Hines' first recorded piano solos. The company which made them stayed in the recording business only a few months.

Two records made by a small band under the direction of a Chicago bandleader which have been made are valuable. His name was Charley Pierce, and when Paramount records asked him to "get some boys together" for a recording date, he showed up with a small band which included Muggsy Spanier and the late Frank Teschemacher on clarinet. The recordings from that session are worth \$40 to \$50 apiece.

### SOME NEVER FOUND

Trumpet King Louis Armstrong, signed to an exclusive contract with Okeh, played two beautiful choruses with "Johnny Dodds and His Black Bottom Stompers" for Brunswick's "Wild Man Blues" and "Melancholy." A pressing from either of these "masters" commands \$15 to \$25.

There are some long-lost Armstrong works which probably would be in the \$1,000 class.

In 1927, Walter Melrose, a music publisher, wanted to put out a sheet music trumpet solo featuring Armstrong's tunes, but Armstrong couldn't write his music down. So he went to Melrose's office and made four recording machine cylinders, which were turned over to a musician to be transcribed on paper. Somewhere the cylinders disappeared. They comprise what Hoefler terms "one of the most de luxe collecting items in jazz."

Another rare record, on the Perfect label, stems from a session by some musicians from Frankie Trumbauer's orchestra. They made a jazz version of "Three Blind Mice" and backed it with a popular tune of the day "In My Room Than Satisfied." It was issued under the name of The Chicago Loopers and one of the "boys" happened to be the immortal trumpeter, the late Big Boy Bester.

In general, Hoefler says, the best collector's items are to be found on white label Vocalion, and Okeh, Gennett, Q&A, and Paramount.

Little having 30 spindle speeds ranging from 11 r.p.m. to 77 1/2 r.p.m. is designed especially for maintaining large diameter work that is not excessively heavy. Wide range of spindle speeds permits machining all work within the capacity of the lathe at efficient cutting speed.

## Big Future Seen For Peace River

### New Oil, Gas Developments Point To Great New Future

There is still a tremendous amount of exploration to be done in the Peace River district. Suspected ore-bodies have to be mapped. Oil discoveries, long allowed to remain dormant, are now being developed.

But one of the grand Peace River's greatest assets, timber, is already being used. For many (by a salting thousands upon thousands of acres of untouched spruce, poplar and other trees, are now being developed. To residents of Grande Prairie, the future of the lumber industry promises even more, for recently

EDMONTON, B. C.—The Peace River district has been investigated by the province's geologists, and the results show that the district has a great future.

Several interests have been investigating the development of the district's untapped mineral resources. They see a harvesting of all the power every industry could possibly need for centuries to come. They see a development of steel, coal, natural gas, timber, clay, and other riches.

They see themselves in one of the last frontiers of opportunity for men with vision and courage. Grande Prairie and the Peace River district are a vital part of what the province means when she says, "Alberta has what you need."

"Kymonika" designed as an elementary musical instrument for teaching basic finger technique and coordination, is said to be a cross between clarinet, harmonica and button accordion.

## TAYLOR PETROLEUM OPERATORS LIMITED

### Consulting and Operating Engineers

**FISHING TOOLS and CASING CUTTERS** available for rental at going rates

- Oil and Gas Well Supervision and Operation

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H. A. (BARNEY) TAYLOR  
President and Managing Director

# The Diesel Electric Plant You Want ...

## \$250 to \$500 cheaper per year than gasoline plants

No Storage Batteries — Yet Starts with the first lamp that is turned on — Quits when the last lamp or motor is turned off

### For the Mechanical Minded

We take pleasure in supplying information on the Morrison Automatic Diesel Lighting Plant.

Class plants can provide you, at a minimum first cost and operating expense, all the convenience of electricity—power to saw wood, pump water and run all other things the plant is designed to do. You can enjoy all the advantages of electric light, radio and labor saving electric appliances. Power is supplied at 115 volts, to conform to most modern standard appliances and motors may be used.

We have for sale Morrison Automatic 2500 Watt (2500W) 60 cycle and the 5 KVA (5000W) 60 cycle plants together with a description of the automatic features. A copy of this pamphlet will explain to you many interesting and exclusive features such as:

- How the compression is applied to the engine after it is turning at 150 RPM in order to start the engine.
- How the main clutch does not close until the generator is almost up to speed and ready to take load.
- How the starting battery is protected against depletion if the engine should fail to start.
- How the battery is fully charged at a high or low rate depending on use.
- How the plant indicator operates by causing the lights to brighten and dim, rather than the standard but inconvenient method of operating the line switch and finding the home in darkness.
- How the special transformer acts to shut the set down when no power is required.

You will also be interested in the tabulation of loads required by various appliances and the method of determining plant size required. We will be pleased, of course, to assist you in this regard.

### The British MORRISON

Automatic Diesel Lighting Plant

### The Detail

How to Derive Relative Cost of Operation of Diesel Versus Gasoline

Assume a 2500 Watt Lighting Plant is to operate in the Prince George area and that this plant will operate for an average of six hours per day for 365 days in the year.

Gasoline Costs at Prince George 35¢ per gal. (without road tax). Diesel Oil Costs at Prince George 24¢ per gal. (without road tax).

### 2500 WATT GASOLINE PLANT

Gasoline Engine uses .125 Imperial Gals. of gas per H.P. per hour (manufacturer's figure). 2500 Watt plant requires 4 H.P.—therefore—2500 Watt plant uses 4 X .125 = .500 gals. per hour. Plant runs 6 hours per day—therefore—uses .5 X 6 = 3 gals. per day. Cost of gas per day 3 X 35 = \$1.05. Cost of gas per year 365 X \$1.05 = \$383.25.

### 2500 WATT MORRISON DIESEL PLANT

Gasoline Engine uses .083 Imperial gals. of oil per H.P. per hour (manufacturer's figure). 2500 Watt plant requires 4 H.P.—therefore—2500 Watt plant uses 4 X .083 = .332 gals. per hour. Plant runs 6 hours per day—therefore—uses .332 X 6 = 1.992 gals. per day. Cost of oil per day 1.992 X 24 = \$47.81. Cost of oil per year 365 X \$47.81 = \$17,251.55.

### SAVING IN FUEL COSTS FOR ONE YEAR USING 2500 WATT MORRISON AUTOMATIC DIESEL LIGHTING PLANT

A 2500 WATT MORRISON DIESEL PLANT UNDER SIMILAR CONDITIONS WOULD OFFER A SAVING OF 2 X \$47.81 OR \$95.62 PER YEAR AS IT IS TWICE AS LARGE.

It should be pointed out that the above figures giving the gasoline consumption of small gasoline engines are based on new engines and performance. Actually a gasoline lighting plant after being used a relatively short time will consume up to 25% more fuel than new, due to engine wear caused by high speed operation.

Morrison Automatic Diesel Lighting Plants operate at 1300 R.P.M. At this speed they can run 26 hours per day continuously to give many years of trouble free service provided the plant receives periodic maintenance checks.

SIZES AND PRICES  
FULLY AUTOMATIC INDUSTRIAL PLANT  
2 1/2 KW \$1,420 5 KW \$1,880  
f.o.b. Vancouver

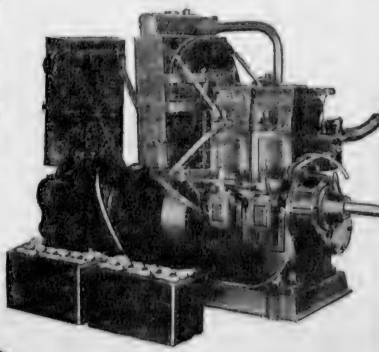
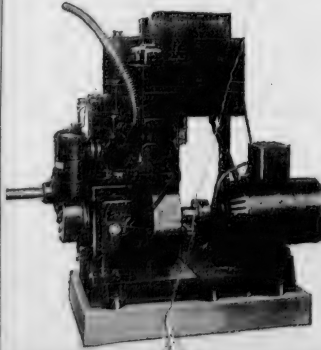
### For the Cost Conscious

Here is information on operating costs explaining in detail that the Diesel engine only costs ONE THIRD as much to run as an equivalent gasoline engine. For example, under the average conditions specified the 5000 watt plant would save approximately \$500.00 every year. Also, a diesel engine is less expensive to maintain than a high speed gasoline engine with its ignition system.

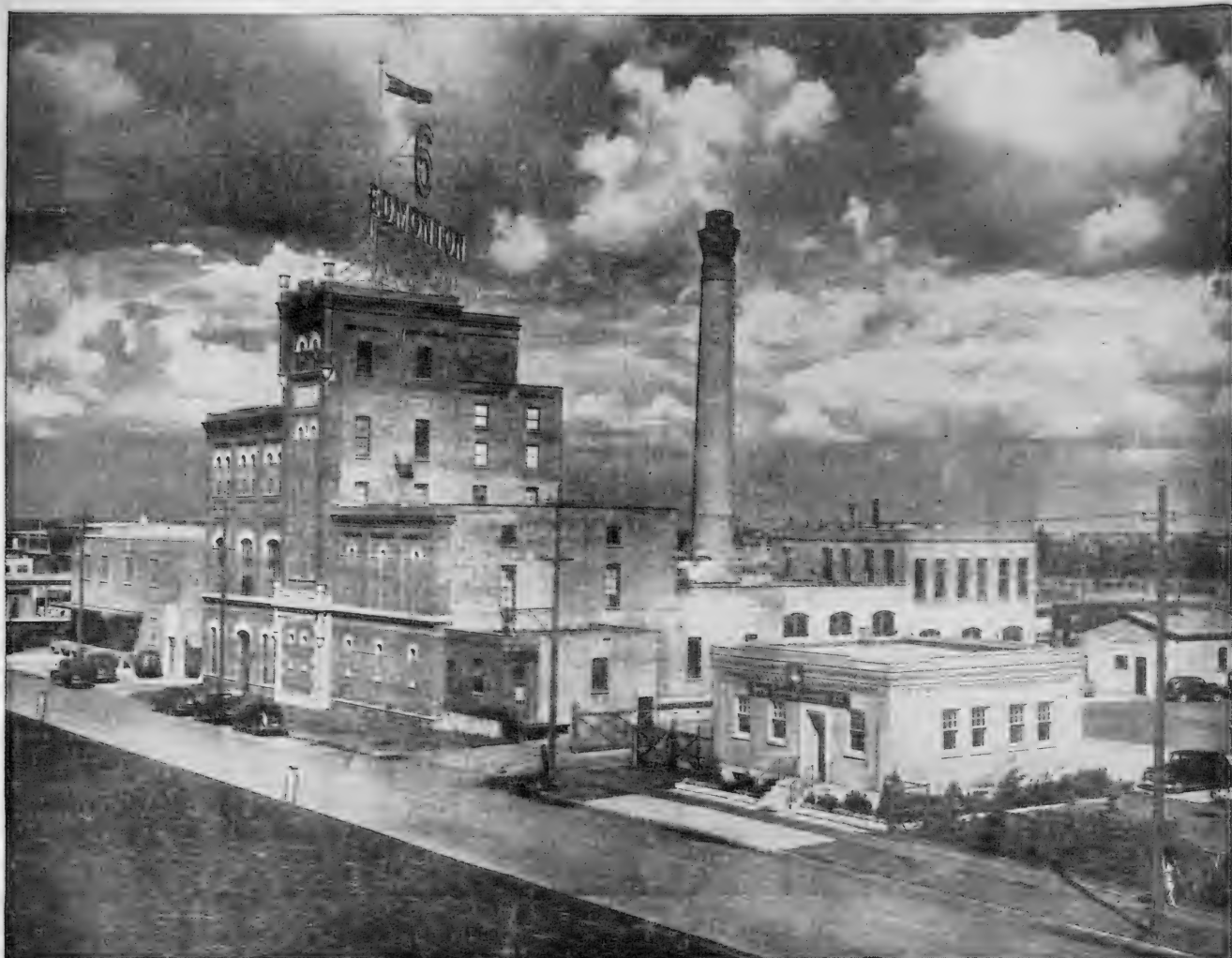
These plants are a product of the A. C. Morrison (Engineers) Ltd. of England who are the largest manufacturers of Automatic plants in the British Commonwealth, with many years of experience in equipment of this type. We have been in business in Vancouver for a quarter of a century with two manufacturing and service plants in the Vancouver area. You can buy from us with full confidence that we can and will completely fulfill all guarantees.

The prices shown are f.o.b. Vancouver, INCLUDING sales taxes and duty for industrial users.

We would be pleased to demonstrate one of these plants in operation.



**ELECTRIC POWER EQUIPMENT LTD.**  
F. J. BARTHOLOMEW: PRESIDENT



# SICKS' SALUTES

## THE ALBERTA OIL INDUSTRY

**T**He enormous oil development in Alberta has uncovered vast riches, and it has been a big job. It required brilliant imagination and excellent organization on the part of business. And it required mutual co-operation and confidence between government and business.

**I**T is a most important job: important to every Canadian because oil means constant progress. Oil brings new wealth, establishes new business and new industry, and it provides considerable employment. Alberta's oil industry is creating a huge industrial machine, which will continue to play an outstanding part in the economy of our nation. And the rich product of that machine will benefit every Canadian for many years to come. So the very best of luck to the men engaged in this splendid work.

**SICKS' EDMONTON BREWERY LTD.**

Makers of Sicks'



Quality Ginger Ale



## Redwater Is Lustiest Infant in Canada Oil

Edmontonians were still gasping mentally over the exciting oil finds at Leduc and Woodbend when Redwater came in with a deafening roar.

The stupendous Redwater producing field, some 30 miles north and slightly east of Edmonton is just one year old. Redwater is certainly by far and away the lustiest infant in Canadian petroleum history.

When say it's by far the largest oil field found in Canada to date and the largest found anywhere in the world in several years.

**BROUGHT IN YEAR AGO**  
It was just one year ago that Imperial Oil Limited brought Redwater No. 1 well into production.

Expansion in the past 12 months has been breathtaking even to veterans of the oil industry.

On its first anniversary, Redwater's proven oil area spreads over 25,000 acres and the proven oil reserve is estimated conservatively at 300,000,000 barrels.

There were 200 producing wells on Oct. 1 that with many more almost ready to go on production.

**CREEPS SOUTHWARD**  
And Redwater is "creeping" gradually southward with Imperial Oil claiming wildcat extending the proven area three and one half miles.

Simmons seems certain to open up a major-south extension that will bring the reserve well over 500,000,000 barrels.

Redwater is already a billion-dollar asset to Alberta and Canada. And drilling crews are probing potentialities of new vast areas, east, north and northwest of the present proven area.

Only four failures have been recorded in the first year of operation at Redwater. A zero of drilling rigs are badly engaged in developing the field.

**NOT ONE-FIRM SHOW**  
Redwater is not by any means an Imperial Oil show, although that company has 48 producing wells in the field at the present time.

Redwater has become juicy mutton from which the Alberta government has so far taken only a small piece of its ultimate share.

But that small piece has been very satisfying indeed.

The government has so far collected \$162,000 in cash bonuses from leasing of some 6,000 acres of Crown Reserve rights in the area.

And the government still holds thousands of additional acres of more or less favorably located Crown Reserve available for future offering to the petroleum industry.

**STEADY REVENUE**  
Of course the government's receipts from 150 completed wells on Crown Reserve land is a steady revenue.

Imperial Oil pioneered the early exploration but other companies were soon on the ground and are playing a big part in the development of Canada's greatest oil discovery.

**OTHER COMPANIES**  
Here is a brief current history of the role being played by companies:

**By O. C. McIntyre**  
Vice-President, Edmonton Chamber of Commerce.

How often have you heard it said that Edmontonians don't seem to recognize the importance of oil? That may or may not be a fact but it is a fact that the oil industry will undoubtedly play a very important part in the lives of our citizens.

The effect may not be a direct one but it should not require a crystal ball to envisage an increasing flow of oil products in the near future.

Which one also is contributing to the growth of the city.

Land sales are swelling, post roads and the value of business and construction far surpasses the hectic days of the real estate boom of 1929.

**ONE OF BRIGHT SPOTS**  
Already we have a number of the probable effect when reports on business conditions from coast to coast limit the number of the bright spots in the nation's business picture.

Secondary industries, allied to the oil industry, are approaching us in Edmonton in greater numbers than ever before.

Land sales are swelling, post roads and the value of business and construction far surpasses the hectic days of the real estate boom of 1929.

**BRINGS MORE JOBS**  
While it is true that our recent expansion has brought great new jobs in our midst, but the development of the oil industry has brought more jobs than any other industry in the world.

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**PURIFYING FIRE** burns away mud and chemicals from new producing well. Nearly every new well is therefore flamed after it comes into production. This is a common sight in rich Leduc field as another producer is brought in.

in. New wells usually clean themselves out in few minutes after flare line is lighted. If wells were not flamed, storage tanks would be contaminated with mud and chemicals.

**PEACEFUL HAMLET** suddenly Big Boom Town--Redwater

Just one year ago, Redwater was a town that the fast trains hardly noticed as they sped through the rich farming country 35 miles southeast of Edmonton.

It was a nice little hamlet with a population of about 200 if you counted in a few of the neighboring farming families.

Now, 12 months later, Redwater is a bustling town of 2,000 people, a new school, a new hospital, a new store, and a new town.

Now, 12 months later, Redwater is a bustling town of 2,000 people, a new school, a new hospital, a new store, and a new town.

## Wild Atlantic No. 3 Was Alberta Rogue

**Damaging Fire Cost Hundreds of Thousands**

By Jack DeLong  
Bulletin Staff Reporter

Nearly seven years ago, when the first well was drilled, the rich Leduc oil field was Atlantic No. 3.

It was the largest oil field in the world at that time, and it was the first to be discovered in the province.

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**BUSTLING HAMLET** of Devon runs on oil from rich Leduc fields. Kiddies of Devon aren't forgotten in excitement generated by unprecedented oil boom. Her preschool age youngsters attend classes at unique kindergarten operated by Mrs. Ian MacLean and Mrs. Hugh

Murray. Mrs. MacLean is former "Babe" Belanger of world-famed Grads basketball team. Mrs. Murray, former school teacher, here shows kiddies how to make things with plasticine.

## Dancing and Games Link With 3 R's in Devon Class

Everybody thinks of Devon as a hamlet. But the pretty little town of 2,000, 17 miles northwest of Edmonton, has more than oil to commend it.

For instance, there is a fine Devon school. It is a modern building, well equipped with a swimming pool, and modern music and art rooms. It is a school where the children are taught to read, write and count, but also to dance and play games.

But parents of Devon are not satisfied with the school. They want their children to have a better education. So they have started a private school. This school is run by Mrs. Ian MacLean and Mrs. Hugh Murray. Mrs. MacLean is a former member of the world-famous Grads basketball team. Mrs. Murray is a former school teacher.

The school is called the Devon School. It is a private school. It is run by Mrs. Ian MacLean and Mrs. Hugh Murray. The school is open to all children of Devon. It is a school where the children are taught to read, write and count, but also to dance and play games.

**VARIED PROGRAM**  
The former basketball star and Mrs. Murray have opened their own school building behind the MacLean home.

The school, with some help from the community, has been set up.

## School Work Pre-Eminent

Alberta's school system has been recognized as outstanding on the North American continent. Teaching methods are being reformed so that young citizens of Alberta learn by living as well as by listening.

Problems of citizenship come right into the school instead of waiting for graduation. Some years ago the entire province was reorganized into large units called school divisions. This change is steadily bringing a high school education within reach of every rural scholar in Alberta.

A new conception of the reasons for education . . . a better system of teaching . . . a modernized course of study . . . a streamlined mechanism to bring education within the reach of all . . . these things help to maintain the pre-eminent position of Alberta schools.

Set of bicycle baskets carried saddle-bag fashion over rear fender or luggage carrier is offered in three forms. Set of two wire baskets is clamped to rear hub of bicycle then fastened with heavy web connecting straps over seat.

**Big Trucks Cut Highway Traffic**  
MONTPELIER, Vt. — (UP) — Exaggerated motorists knew it all along, but the Vermont Highway Board has found, officially, that big trucks "actually reduce" the volume of traffic a highway is designed to carry.

"One truck equals from two to five passenger cars, depending on the terrain," the study pointed out. The Vermont road board agrees with findings in Pennsylvania that in hilly country big trucks "reduce" the normal flow of highway traffic.

**LEARN GROUP GAMES**  
The dancing taught by Mrs. MacLean is similar to courses for use at the Ideal Davidson school of dancing in Edmonton, with which the school is affiliated.

"Stamps" will also give the teachers a P.T. course and material to learn games.

Mrs. MacLean knows quite a bit about dancing. She has won of

- Holding 2,236.5 acres of productive leases in Turner Valley on which are producing 13 Okalta wells, and 24 producing wells that pay Okalta royalties—1,440 in the Leduc field—1,760 acres in the Golden Spike area—4,360 acres in the Kehoe Lake structure—440 acres at Taber—160 acres at Del Bonita—and 2½ sections at Pincher Creek, adjacent to Gulf Oil developments.



# OKALTA STAKES STONY WELL ON JOINT BLOCK WITH IMPERIAL

OKALTA OILS LIMITED, oldtimer Calgary independent, has staked location and is starting work immediately on a well to test a seismograph feature near STONY PLAIN, about 17 miles west of Edmonton and about 7 miles north-west of the Golden Spike oil discovery. The well, OKALTA-STONY PLAIN No. 1, will be drilled in 1st 5 29-52-27w4th (Co-ords. 1,980'N 660'E), using the Okalta owned National 50 diesel-powered rotary rig. Work on site starts today and rig will move in immediately.

Okalta is drilling the well under a farmout agreement reached with IMPERIAL OIL LIMITED, under which 2½ sections of Imperial lease are grouped, with half a section of Okalta lease, with interest in the three section block divided 50-50 between the two companies. Imperial did the geophysical work on which the exploratory drilling is based. Should discovery result, Okalta and Imperial will each have a half interest in the Stony Plain well now starting, and will share all revenues and follow-up development costs on the same ratio.

The joint acreage includes: north half section 20, all section 29, east half section 30, south half section 32, all in twp. 52 Rge. 27w4th and provided by Imperial; and south half of section 31 Twp. 52 Rge. 27w4th, provided by Okalta.

- On 240 acres being actively developed by Okalta on Ltd's 1, 2, 7, 8, 9, and 10, Sec. 33, Twp. 49, Rge. 26, W4th, there are now six producing wells owned by the Company. On the N.E. sect. of 28, 49, 26, W4th which is a farmout from Imperial Oil; Okalta Leduc No. 9 was successful in obtaining production in the D-2 zone; development of these lands will continue on an active drilling programme.

## OKALTA

Owens 960 acres between the above mentioned Stony Plain Block and the famous Imperial-Golden Spike Discovery well; this acreage is in the east half of Sect. 5, and all of Sect. 9, in Twp. 52, Rge. 27, W4th meridian. Development on this land will be undertaken in the near future.

The company owns two heavy duty rotary steam drilling rigs in addition to two standard rigs and diesel powered portable drilling equipment. Founded by the late W. S. Herron, first to recognize the possibilities of Turner Valley as an oil field, the Okalta Company has continued to play a dominant part in the development of the Province's oil resources.

TODAY, guided by his sons, H. F. and W. S. Herron, the same aggressive policies and development are being carried out.

**OKALTA**  
OILS LIMITED  
Renfrew Bldg. - Calgary

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Maynard J. Davies  
Managing Director

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**Petroleum**  
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**CALGARY, ALBERTA**

# Veteran CCF-er Leaving Politics

## Manitoba Leader Gives Up Seat He Held For 27 Years

By Gertrude Key  
British United Press Correspondent  
WINNIPEG, Oct. 22.—(BUP)—Political artillery began to boom across Manitoba this week but one of the province's most colorful campaigners—S. J. Farmer—was planning to stay at home and sit this one out.

### Rules On Canines Draw Protest Without Avail

GRAAFF REINET, South Africa.  
Oct. 22.—(CP)—Dogs lead a real dog's life in Graaff Reinet.  
It is illegal for them to cross the river outside the town. It is a crime to enter a park or romp on the commons. Their owners can walk them on the commons.  
The matter came to a head when a resident asked council's permission to exercise his dog on the commons. The town council turned him down.  
Taking up the challenge, the local newspaper hounded council until they backed down.  
On behalf of all the dogs in town—these perpetual looking-ones which find recreation likewise in the streets of the town—there is an appeal for some concession.  
Their lives are plagued with concrete and encircled by iron railings within and without the town.  
At last report, the issue was still raging in Graaff Reinet.

Paul J. Pheen, director of the single tax and direct legislation, which he held north this year. Seventeen years ago he situated friends, the two sons made him ends in the world of labor for the militant stand they took on the problems of the "little fellow". The first milestone was passed when Dick, with Farmer's help, was elected to the Manitoba Legislature on the labor ticket.  
Farmer invaded politics too, and on his second bid for the mayoralty became Winnipeg's first magistrate in 1923 by contesting the election.

The trail, 70-year old socialist who was thinking in terms of the C.C.F. long before the party had a name, brought his political career to a voluntary close this fall and decided not to contest the seat he held in the Manitoba Legislature for 27 years.  
The C.C.F. forces were to be led into the provincial election this year by E. A. Transue, another long-time C.C.F.er who took over the reins of leadership from Farmer a few years ago. Voters are to the polls on Nov. 14.  
Seymour James Farmer came to Canada at the age of 21 and went to work for the railways in Winnipeg and Brandon, Man. It was in the wheat city that he was able to save up enough money to open up a book store. The business venture failed but it did one thing—it gave the young Welshman a taste for books and he never did forget the principles he found in Henry George's "Progress and Poverty".  
He returned to the railways but by this time he had developed an ardent interest in the problems of the common working man, problems which affected him in intimate manner.  
He became a protégé of the late

### Scout Problems

By JAMES, Minn.—(CP)—Scouts are not jumping up and down in one of their weekly sessions in a room upstairs over the public library here. They jumped so hard that a loose section of plaster fell from the library ceiling. The only book damaged was "Problems of 1919" by James.

### Yukon Living Costs Is Highest In Canada

Owing to the long distances over which commodities must be imported, and the high cost of transportation, the cost of living in Yukon Territory is considerably higher than in the provinces. As a general rule the cost of clothing, food and other necessities is at least 25 per cent more than in the more southern portions of Canada.



SKIES southwest of Edmonton glow every night from "signal fires" that problem in letters of flame now petroleum wealth of Canada. New producing well come in almost every day in some part of Edmonton oil fields. Just another producer is flared into life in this picture.

# Musician Sells Polkas To Get People Happy

By Mark Barron  
NEW YORK, Oct. 22.—(AP)—A musician with a mission, Polish-born Walter Dana, says he is concentrating on the polka because he believes this Bohemian dance and music is a healthy sign in the entertainment business.

Along with pop, blues and jazz, the polka is more and more returning a prominent place on the musical consumers of shows and night spots.

**FOUNDED GROUP**  
Dana, founder of the Dana ensemble, a group in Warsaw in 1928 now in head of Dana records. The firm concentrates on Polish polkas, cakos, mazurkas in addition to modern American songs.

"There are several reasons why I concentrate on the polka," Dana said. "To me rhythm is the most important thing in music. Without rhythm, music has no value."  
Because of the rhythm, classical music cannot stand the competition of modern popular music. The polka, to me, has a very powerful music element. It makes people feel happy, and I like to see people happy."

**PRIVATE CONCERNS**  
Dana composed his ensemble in Poland and gave many private concerts before the group came to New York and the United States.  
"The first concert we gave was at the Warsaw theatre in Poland in 1928," Dana said. "That was when the first bombing happened and we had to flee."  
"We came to Broadway, but our ensemble had to break up again when most of them went into the U.S. Army. That was when I went on my own and began the recording business."

**Sobering Moment**  
**MINNEAPOLIS**—(UP)—The case of a busy driver who struck a tiny pedestrian ended soberly with a \$100 payoff. A \$100 fine for dangerous driving was levied on Edwin Severance. A \$10 fine was paid by pedestrian Dennis Curran, who wasn't injured to any extent.

### Financing Canadian Industry

The increasingly competitive nature of today's markets often requires new and improved methods of industrial production.

A subsidization program may demand more funds than are readily available from company resources. This problem may be aggravated by the need for increased working capital necessitated by higher costs of production and raw materials.

Executives of corporations with a problem of this nature are invited to consult with us concerning the availability of additional capital.

Inquiries to any of our branches will receive careful attention.

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## Cavern Bulges As Food Surplus Up

### Dried Eggs Spurned By European Countries

ATCHISON, Kan., Oct. 22.—(UP)—A great limestone cave near here into which rooms various federal agencies have pumped foodstuffs for storage is almost bulging at the seams.

In the cave, from which limestone was quarried from 1881 until the War Food Administration began using it in 1941, are more than 60,000,000 pounds of food—dried eggs, prunes and raisins, Delbert V. Case, manager said.

Case said the dried eggs in storage totalled 17,000,000 pounds. Some of the powdered eggs had been there for 15 months and still were keeping well. The Commodity Credit Corp. recently allotted \$10,000 for air-drying equipment to be used here in egg storage research. Originally it was believed the dried egg would keep only a few months.

The equipment, installed in two rooms of the cave capable of handling about 18 carloads of powdered eggs, may help to provide a way to store this powder for as long as four years without deterioration, Case said.

**EGG DEMAND OFF**—The eggs are being purchased by the agriculture department in performance of its requirement under parity regulations to keep the price balanced.

Case said the demand from foreign countries for dried eggs had fallen off. Dried eggs now are shipped from the natural cooler to repackaging plants for use in such government projects as the school lunch program and for use by institutions.

The cooler has been taking in so many eggs as it has been shipping.

Dried eggs are stored in wooden barrels in the cave. The cooler now is in charge of the CCC and is operated by the production and marketing administration of the Department of Agriculture.

**PLENTY OF SPACE**—The cave is owned by Frank and Lloyd Kerford, Michigan Negroes, who inherited the quarry from their father. It has 12,000,000 cubic feet of storage space and its floor space covers an area as large as 10 city blocks.

The normal cave temperature is from 55 to 58 degrees. The WFA installed a refrigeration system in the cave to pull the temperature down to 31 degrees. The WFA used 2,000 board feet of lumber in building 10,000 wooden pallets for use in storing foodstuffs.

Case said the cooler has been operating in the black since early 1946. Its operations were ham-

## Original Home Of Vancouver Sold To Veteran

PETERSHAM, Surrey, England, Oct. 22.—(CP)—A plan to move Glen Cottage, the old home of Capt. George Vancouver, from Petersham to Vancouver has been frustrated.

The house, which stands near Capt. Vancouver's grave, had been sold by the Earl of Dysart's estate to the present tenant, Noel Pannock.

Pannock, a prisoner of war for five years, had first refusal of the property when he moved in with his wife after the war. An elec-

tical engineer, he has since modernized the cottage.

Vancouver authorities wanted the cottage as a memorial to the man who, in 1782, sailed round the island which now bears his name. One suggestion was that it should be re-erected where Lumberman's Arch used to stand in Stanley Park.

## Low As They Come

WINSTON-SALEM, N.C. (UP)—Leslie Van Zigar was given six months in jail on her 38th arrest. William Lawrence, blind Negro, said she was "scratching around in my pocketbook" when he looked to see if he had 50 cents in change to lend her. After the left, he said, he was missing \$20.



SOME DAY oil from Alberta's tar sands may pour forth in greater volume than from all oil fields of this continent combined. U.S. experts have estimated potential of tar sands to be in billions of barrels. Future shows \$750,000 Provincial Government experimental

plant at Bitumont on banks of Athabasca river near Fort McMurray. Process for extracting oil from tar sands are being gradually brought to perfection although costs are still high.

## First Drilled Oilwell's Site Preserved as Park

A new attraction has been added. The structure was dedicated in place of the oil industry and a fitting tribute to the man whose name it bears. The structure was dedicated by Col. Robert I. Drake, son of the man whose name it bears. The dedication ceremony was held on the site of the first oil well drilled in the United States. The structure is a small, white, rectangular building with a gabled roof. It is surrounded by a low wall and a path leads to it. The site is located in the town of Drake, West Virginia.


## Charm's Not Enough

GAINESVILLE, Fla. (UP)—On one day a year endurance and not feminine grace pays off for coeds at the University of Florida. The most popular girls on the campus that day are those who win events in the Sigma Chi derby. The girls who win are those who can eat the fastest, chew the eggs the hardest and push potatoes with a spoon.

Venus is the bright star that comes most nearly overhead in New York.



GOLDEN RETURNS near from Imperial Oil Co. Golden spike No. 1, 25 miles southwest of Edmonton. High quality crude is produced from producing formation 518 feet thick. Spectacular well had flush production of 10,000 barrels per day.



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# India, Pakistan Dig In on Kashmir Line

## Armies Prepare For Winter Along Himalayan Front

By Robert Branson

United Press Staff Correspondent

SHINAGAR, Kashmir, Oct. 22.—(U.P.)—Up on Kashmir's cold Himalayan ridges, armies of India and Pakistan are digging in for the winter along an 800-mile cease-fire line which is all that separates them from war.

Efforts for a peaceful settlement of the two-year-old dispute over Kashmir have broken down, and the special United Nations commission, which tried to act as peacekeeper between the two nations, has left Asia to refer the whole quarrel back to the Security Council.

There has been no fighting in Kashmir since India and Pakistan signed an UN cease-fire agreement last January. Both sides say they want peace, but both have warned that any breach of the ceasefire line will be an invitation to a full-scale international war.

They watch each other like panthers. Sentries posted on mountain tops along both sides of the line in a snow-covered, pine-clad stand guard 24 hours a day, ready to report any unusual movement from the pine valleys below on a telephone line.

The fight for control of Kashmir started in October, 1947, when Muslim tribesmen swept into the state from the west to "liberate" all people from the rule of a Hindu maharajah.

The maharajah had not decided whether to join his state with Hindu India or Muslim Pakistan, but as the raiders approached his palace at Srinagar he quickly joined India.

Indian troops poured into the state that autumn and early drove the raiders out of the central valley, only to meet Pakistan tanks entrenched in the mountainous regions.

Though what followed was never a declared war, it was fought with all the fury of one—with planes, tanks, bombs, artillery and even knives. When the cease-fire came, India held about two-thirds of the state and Pakistan controlled the rest.

India alone spends \$60,000,000 a day to maintain its Kashmir forces, according to official figures.

The bitter fighting that preceded the January cease-fire was never a declared war. Indian and Pakistani officers referred to each other as the "opposition" rather than "the enemy," and were taken to keep operations from spilling over into the home soil of either nation.

People in both countries seem to fear that no such truce would be observed if fighting began again.

The prize at stake, Kashmir itself, is a snow-capped, pine-clad stand guard 24 hours a day, ready to report any unusual movement from the pine valleys below on a telephone line.

Between India, Pakistan and Afghanistan, Tibet, Sinkiang and clear day you can see the glint of their binoculars.

Troop strength figures are secret, but neither army is small.

EDMONTON BULLETIN, Saturday, Oct. 22, 1949 31

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FRED H. MacDONALD

Member Royal Architectural Institute of Canada

REGISTERED ARCHITECT

IN ALBERTA AND BRITISH COLUMBIA

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"Smile Hats"

IN NEW LOCATION

EAST OF CAPITOL THEATRE



Serving Albertans For 37 Years With

QUALITY HEADWEAR SHIRTS and ACCESSORIES



It has been our pleasure to keep pace with the growth of Edmonton by offering top quality merchandise and ever increasing service to our many customers and friends.

EDWARDS 'Smile' HATS AND MEN'S WEAR

New Location East of Capitol Theatre

10027 Jasper Ave. Ph. 22272



SOME PACKING plants boast of using everything but squeal of pigs. Imperial Oil Limited \$6,500,000 gas conservation plant at Devon will play similar utilization role in Alberta petroleum industry. Plant will process gas from vast producing field, returning to ground unus-

able products. Officials say 90 per cent of gas coming to plant will be sold as dry gas for commercial purposes. In former days these valuable by-products were lost.

## Time and Brains Pooled To Lower Building Costs

CLARKSON, Ont., Oct. 22.—(CP)—Nine professional office employees turn manual workers two evenings a week, and every week-end, to build their own homes at an estimated saving of \$80,000. The money saved represents about 60 per cent of the cost of each house.

The men, employees of a large oil company 35 miles from Toronto, have given up golf and other pastimes to build their homes on a co-operative money-saving basis. Often their wives and children accompany them to help with lighter tasks.

The scheme was originated last March by C. B. Campbell, an electrical engineer with the oil firm. He was so disgusted with trying to find a home he decided to take matters into his own hands.

Eight of his fellow workers did not hesitate to pool their spare time in the scheme.

They are accountant Jack Runnells, who takes care of finances, with advice from Dr. Fleming, a tax expert; Garth MacDonald, a lawyer who helped get expensive

house plans and his own building site. However, purchase of materials is carried out on a co-operative basis, often resulting in a discount when large quantities are ordered. Runnells believes that the system works "amazingly well." He said "new and difficult jobs, such as laying foundations, were completed in short order because 'it doesn't get to someone when a gang works together'."

Electric and Acetylene WELDING

A Complete up-to-date Service

WELDING FABRICATORS

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SHOP AND FIELD

PORTABLE EQUIPMENT

ALWAYS AVAILABLE

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## GENERAL TINNING

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MANUFACTURERS OF

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OUR SPECIALTY—Fabrication and Welding of Stainless Steel.

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# BARBER

## MACHINERY COMPANY LIMITED



EDMONTON PLANT



CALGARY PLANT

- ★ Engineers
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- ★ Suppliers

Contractors' Equipment  
Malo Loader-Dozer

Manufacturers and Maintainers of OILWELL DRILLING, PRODUCING, PIPELINE AND REFINERY EQUIPMENT

PLANTS: Edmonton, 10358 65th Ave. - Calgary, Manchester District.

President, F. E. Barber. Vice-President, W. E. Griffiths.

## Assiduous In Onslaught On Oil Sands

The tar-sands, oil-sands, or bituminous sands as they are variously called, lie along the banks of the Athabasca river, in the north-eastern section of Alberta. Proved bituminous sand areas total 30,000 square miles.

A traveller on the Athabasca river will notice these sands by their dark brown or black color and strong asphaltic odor. If a handful of the sands were scooped up it would be noted that each grain of sand is surrounded by soft, sticky, tarry substance.

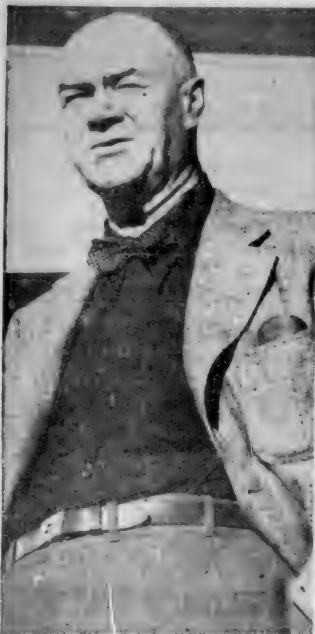
The magnitude of this resource is hard to imagine, for in these sands, easily accessible to open-pit mining, the United States Bureau of Mines estimates to reserves of over 200,000,000,000 barrels.

Processes for the recovery of oil and asphalt products are past the experimental stage. A plant with a capacity output of 400 barrels a day has been completed at Bitumount, Alberta.

Tests show that 33 per cent of this oil can be made into 100-octane aviation gasoline and 17 per cent into 80-octane motor gasoline through the present processing cost is high.

The glycerine content of the sands is as high as 25 per cent, with some of the outcrop areas carrying from 100,000 to 125,000 barrels per acre. The limiting factors are the cost of the separation process, and the cost of transporting to major markets.

The Alberta government through the Alberta Research Council, is conducting intensive experiments to bring down the cost of separation. Since an easy, inexpensive method has been found and established, the output of the sands in volume alone will bring down costs.



WHEN AN OIL BOOM hits you just can't retire. That's how J. "Wanda" Summers of Devon feels. Former mayor of Wetaskiwin, Summers had decided to retire when oil was struck at Leduc. Instead of comfortable slipper and chair by fireplace Summers started all over again, with modern drug store and lunch counter in bustling oil centre of Leduc. Now he's just too busy to retire.

## Yukon Farm Industry Due Klondike Miners

Agriculture has been around in Yukon Territory since the beginning of the pioneer days. When farming and prospecting were combined, the Klondike miners found the best place for the job was in the Yukon. The Klondike miners found that the best place for the job was in the Yukon. The Klondike miners found that the best place for the job was in the Yukon.

The decline in general prices for livestock has been a serious problem for many farmers. However, the price of wool has been a bright spot for many farmers. The price of wool has been a bright spot for many farmers.

FARMERS ARE OWNERS  
Current agricultural operations are good.



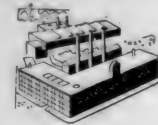
THIS FELLOW is more than just chief cook and bottle-washer in thriving oil hamlet of Redwater. Doug Archer not only operates "Meas Deck" cafe but serves as unofficial mayor and chamber of commerce president at Redwater. His cafe serves approximately 300 steaks per day to hungry oil field rough necks.

## Alberta Cited As Example

Canada is cited as prime example for successful oil development under free enterprise by World Oil magazine, published in the United States.

Saw a recent editorial stating oil exporting class is a very short step from nationalization.

A free enterprise country, Canada is experiencing successful operations at present and facing none of the future which will be indicated by the class without a doubt, place Canada high up in the oil-producing column in a very few years. The article also predicts that non-corrosive and non-irritating Canada will surely grow into the skin.



The industrial expansion of Edmonton is a challenge to the builders of the future... we are well prepared to meet this demand.

## Christenson & MacDonald

GENERAL CONTRACTORS

612 TEGLER BLDG.

PHONE 26766



**Anglo-Canadian Oil**  
Company Limited  
Petroleum Exploration and Production  
Turner Valley, Woodbend, Redwater, Etc.  
Head Office—900 Lancaster Bldg., Calgary

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now on it's  
**ANDY'S**



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IMPROVED SERVICE  
and  
IMPROVED CLEANING

25 Years Experience in Dry Cleaning

Our new building has been designed and equipped to render old and new customers a HIGH QUALITY DRY CLEANING SERVICE. Our equipment includes latest type filter, water, press, etc. etc. to render an unsurpassed dry cleaning service.



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For speedy pick-up  
and delivery to any  
part of Edmonton

**ANDY**  
CLEANERS

Phone 71450 6516 118th Avenue  
Free Pick-up and Delivery



**MAN-MADE INFERNO** of brief duration was created at Royallite No. 3 well in Red-water sector of Edmonton oil fields. New producers are always flared to clean chemical and mud-polluted oil from drill-pipe. Flare fires are like some dogs. Bark is much worse than bite.

## Women Harbormaster Startling to Prince Rupert

By Jim Wood

PRINCE RUPERT, B.C., Oct. 22.—(BUP)—Grizzled old sailor, clumping across the threshold of the harbormaster's office here in heavy sea boots, stared in surprise, blushed and then awkwardly refrained their steps.

At first they thought they'd made a mistake, but they didn't have to tingle long, because Mrs. Dorothy Elfert was quick to introduce herself. She was the new harbormaster.

Greybeards shook their heads sadly. It seemed a far cry from the speak of the brine as well as any.

She took over the harbor duties when her husband died earlier this year, and her official appointment as harbormaster, the first of her kind in Canada, was confirmed later by the Federal Transport Department.

The plump, middle-aged woman has the salt in her veins from way back. She was born in Glasgow, Scotland, and watched the great North Sea coasters move out of port as a child. She married in 1920, and shipped out shortly after.

## Five Rivers Build Wealth By Irrigation

Dominion Bureau of Statistics has estimated the volume of Alberta pulpwood material at 7,724,000,000 cubic feet.

With the exception of Quebec, Ontario and British Columbia, Alberta is richest in forest resources. Almost 50 per cent area of the coniferous varieties used in the manufacture of pulp and paper.

In addition, Alberta has water power and unlimited coal supplies near the forests.

Irrigation has become an important factor in the agriculture development of the south part of the province. Waters of five rivers are spread over 335,000 fertile acres and another 800,000 acres will be added by projects now under construction.

Since irrigated land is independent of rainfall, great success has been achieved in a host of special crops. Outstanding is the sugar beet crop grown on nearly 35,000 acres surrounding the Lethbridge district, about 20 miles north of the United States border. There are already two beet processing plants in this area and a third factory under construction. From the existing plants over one hundred million pounds of sugar are produced each year, enough to supply sugar needs of Alberta, Saskatchewan and part of Manitoba.

## 1,016 Wells In Operation

The petroleum and natural gas conservation board has announced that on October 10 there were 1,016 operating oil wells in Alberta.

Earlier this week the board's weekly report erroneously reported that there were only 950 operating wells in the province.

This was a decrease from the previous week's record of 1,006. Of the record number of wells set in the week ending October 10, 326 are in the Leduc field, 210 in the large Redwater field, and 200 in Turner Valley. The remainder are located in the Lloydminster and other fields.

## Fire-Resistant Partition Popular

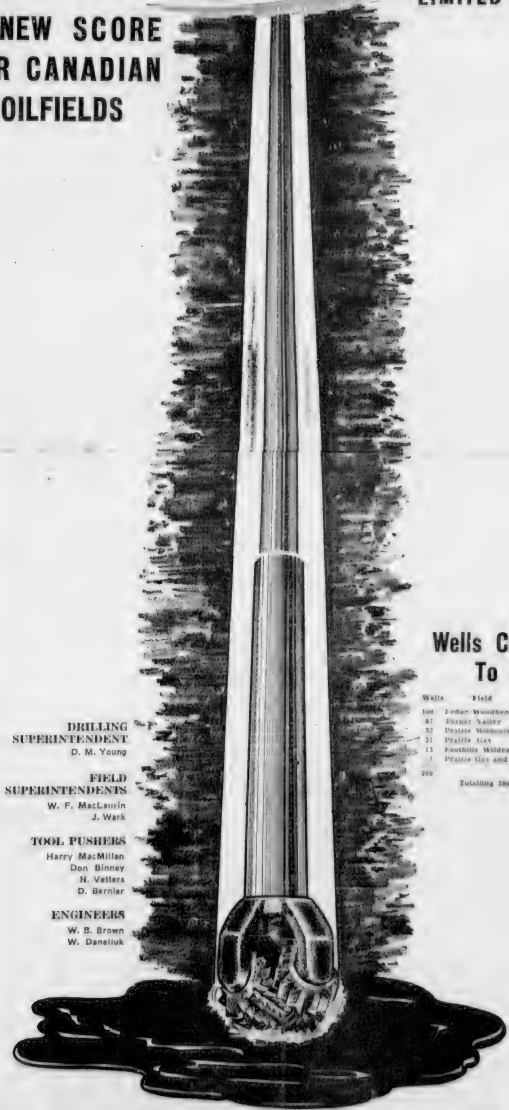
A 1½-inch fire resistant solid building partition is said to be thinnest and lightest ever devised for nonbearing walls to resist transmission of heat and passage of flame and smoke effectively for one hour. Ohio company recommends its use where space-saving and weight-reduction are primary considerations.

Partition consists of lightweight aggregate plaster applied on metal lath.

# 100 Wells IN LEDUC-WOODBEND

Have Been Successfully Completed BY DRILLING CONTRACTORS LIMITED

## A NEW SCORE FOR CANADIAN OILFIELDS



## Wells Completed To Date

Wells	Field	Footage
100	Leduc-Woodbend	436,333
107	Turner Valley	411,100
12	Turner Valley	80,100
21	Prudhoe Bay	45,833
11	Prudhoe Bay	45,833
7	Prudhoe Bay and Commercial Bay	20,000
200		1,000,000

Excluding 250 miles of hole

## Select Oils Limited

Capitalization 5,000,000 Shares, non par

DR. LEON O. BEAUCHEMIN, (Physician and Surgeon)

503-19th Ave. West, Calgary, Alberta.

LELAND S. WILLIAMS, (Live Stock Broker)

1016 Connaught Drive, Edmonton, Alberta.

KENNETH E. SAMIS, (Coal Mine Operator)

Wallace Building, Edmonton, Alberta.

THOMAS J. FARRELL, (Farmer and Rancher)

310-55th St. W., Calgary, Alberta.

JOHN TEASDALE, (Farmer)

Red Deer, Alberta.

ELMAR E. STEPHENSON, (Farmer)

Red Deer, Alberta.

SAM J. HENDERSON, (Farmer)

Lacombe, Alberta.

ROGER ROBERT, (Coal Dealer)

1200 Marie Anne Street, Montreal, Que.

S. HENRI ROBITAILLE, (Investment Banker)

62 St. James Street West, Montreal, Que.

Sec-Treas., FRED NAYLOR, 12603 Stony Plain Road, Edmonton, Alberta.

9021 - 101A Avenue

Room 203

Edmonton

## Capitalization

Authorized (without nominal or par value) — 5,000,000 shares

Issued for cash — 230,012 shares

To be issued for properties 1,500,000 shares

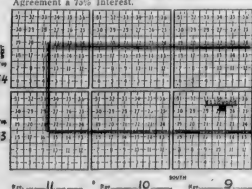
To be issued for public subscription for cash (of which issue 186,000 shares have been applied for by the directors) — 1,550,000 shares

Balance in treasury — 1,629,988 shares

Price of Shares — 25c Each

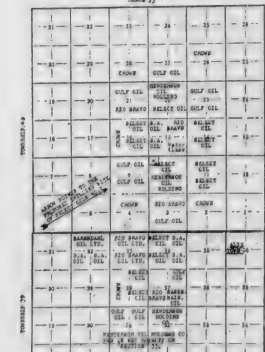
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Location at Government Reservation Situated Near Wildwood, Alberta. Comprising a Total of 51,600 acres in which Select Oils Limited have Acquired under Agreement a 5% Interest.



Geological reports have been prepared by Dr. R. L. Bullerford with respect to the above properties. Dr. Bullerford recommends that the Company should test the Aikx land by drilling and should proceed to explore the lands comprised in the reservation.

It is the intention of the Company to drill its first well on Legal Subdivision 13, Section 30, Township 46, Range 20, West of the 4th Meridian. Arrangements are also being completed to have a gravity meter survey made on the reservation above referred to. Drilling contract will be announced at an early date.



FROM "THE FINANCIAL POST" 14 Aug. 1940.

Report of interview with "leading oil executive."

"Are we to sit back apathetically and see one of our greatest national assets—oil in the ground—owned by outsiders? Why aren't we harnessing our own great reservoirs of risk capital to tap our rich oil resources? If 800 millions has been spent on Western oil exploration to date, proven reserves of the Leduc field mean there has been a pay off of better than 10 to one on each oil exploration dollar spent — an attractive enough picture to draw Canadians into the financing of oil exploration."

Applications for shares will be received by

**Carlile & McCarthy Ltd.**

2258R — Phone — 21826

EDMONTON, CALGARY, VANCOUVER, VICTORIA

**Lajoie Robitaille & Cie**

60 James Street West, Montreal, P.Q.

The acreage mentioned in this Prospectus is unproven and any investment in the shares of the Company must be considered speculative.

PRESIDENT  
RALPH WILL

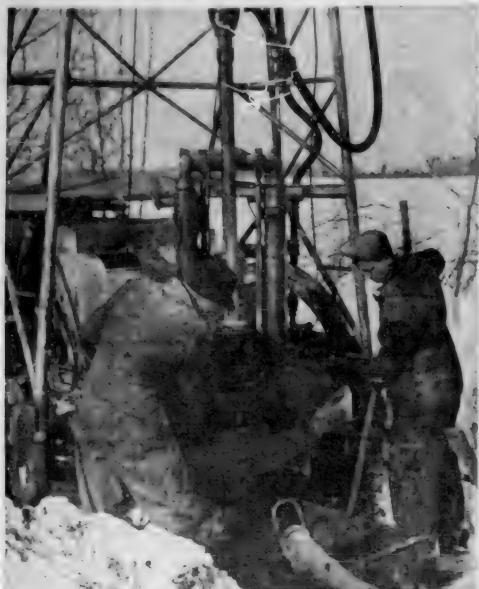
VICE-PRESIDENT  
T. H. McIVOR

SEC.-TREASURER  
J. Q. GAMMON

# Drilling Contractors Limited

HEAD OFFICE: 400 LANCASTER BUILDING, CALGARY, ALBERTA





SEISMOGRAPH CREWS under the miniature drilling operations, but no oil comes from these deep cuts. Team of seismograph experts are drilling hole in which to set off dynamite charges during winter exploration work in Edmonton area. Search for oil goes to its extreme.

## Alberta Oil Assets So Huge Entire Economy Is Changing

Alberta, but they will be surprised without realizing it. The oil assets of Alberta are so huge that the entire economy is changing.

From the oil fields of Alberta, the province is producing more than 100,000 barrels of oil daily.

It is something under three and one half years of production in the province for the first time since the 1940s.

Production from all fields in the province for the first time since the 1940s.

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### PIPE OIL AT \$4. COST

A big pipe line is being constructed in Alberta, Oil is being pumped from the fields of Alberta to the coast.

The pipe line is being constructed in Alberta, Oil is being pumped from the fields of Alberta to the coast.

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# 90% OF CANADA'S OIL

## Produced in ALBERTA

Alberta is rich in oil-soaked sands too—some 50,000 sq. miles that will give 200 million barrels when extracted. From these valuable deposits come such essential by-products as gasoline, diesel fuel, asphalt and other industrial products.

Alberta's oil production is big business. More than 500 Alberta wells pour out over 100,000 of Canada's present supply. Productive fields are also increasing. New fields have been proven year after year... the Vermilion field in 1944... the Taber field in 1948... the Lloydminster field actively producing... and NOW a recent oil strike a few miles from Edmonton, has tapped another storehouse of oil, giving promise of a vast new supply of the precious fluid for gearing to modern industry. Possessing natural gas and oil... vast deposits of salt and tar... enormous reserves of water power—lavish endowments of forests, fisheries, fur and unexcelled agricultural lands, the Province of Alberta is indeed in a position to offer industrial opportunities that have few equals anywhere.



Complete information on Request  
PUBLICITY & PROMOTION BRANCH

THE PROVINCE IN YOUR

INDUSTRIAL FUTURE

THE GOVERNMENT OF THE PROVINCE OF ALBERTA



LEGISLATIVE BUILDINGS  
EDMONTON

## WEAR AND TEAR

call for L.A. Hardfacing Electrodes or Gas Rods

Four enemies of modern industry—abrasion, corrosion, friction, and impact—take an annual toll of possibly millions of dollars. Some of this can be saved and the service life of machinery lengthened appreciably by applying hardfacing materials to wearing surfaces by means of the electric arc or oxyacetylene flame.

For many years L.A. Hardfacing Electrodes and Hardfacing Gas Rods have been used throughout industry to save expensive replacements, costly shut-downs and delays. There is an L.A. Electrode or Gas Rod for every need.

Our Technical Department is at your service. Call them to help you solve your hardfacing problems.

Canadian **LIQUID AIR** Company  
LIMITED

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Baltimore • London • Windsor • Winnipeg • Regina • Saskatoon • Calgary • Edmonton  
Vancouver • Victoria

Here are a few of the leaders in the Hardfacing field—we have others:

- L.A. GISE (COATED) For severe abrasion, light impact.
- L.A. NO. 10 (COATED) For severe impact, light abrasion.
- L.A. HILMANN (BASE) For severe impact, light abrasion.
- L.A. HILMANN (BASE OR COATED) For severe abrasion, moderate impact.
- L.A. ECONOFACE (BASE OR COATED) For severe impact, moderate abrasion.
- L.A. ABRASOFACE (BASE OR COATED) For surfacing barrel parts, bending bar electrodes.
- L.A. RESISTOFACE (BASE OR COATED) For overlays on machine parts finding wet or cold abrasion.

## Commonwealth Drilling Company Limited

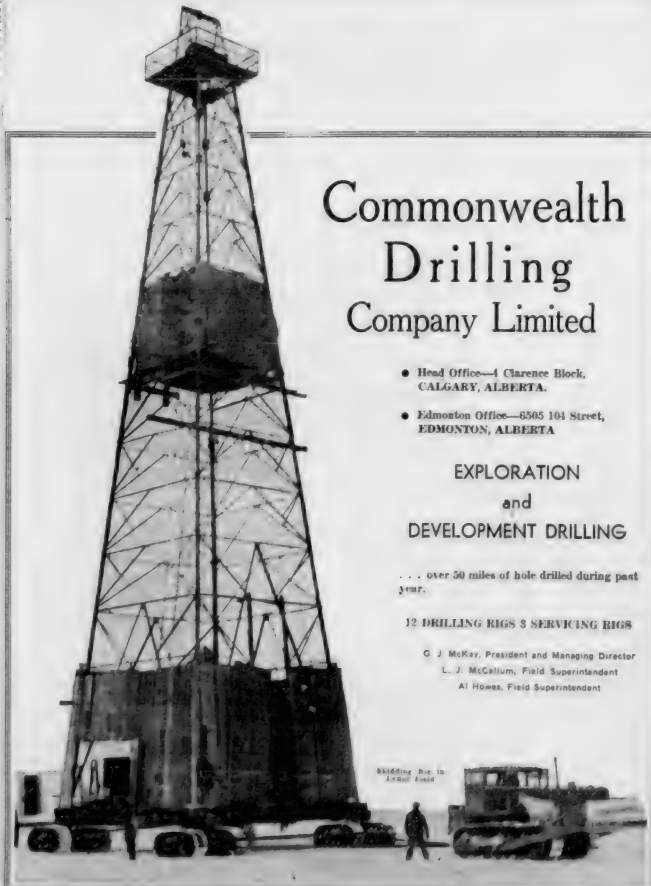
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**HOUSING SITUATION** Is bad all over and worse in oil-booming Redwater. Hotel reservations are as difficult to get in Redwater as atom bomb secrets from minister of national defence. New arrival in Redwater here sits dejectedly on suitcase and gazes longingly in direction of fine new hotel which is literally bulging at seams with guests.

## Oil Anniversary Marked In U.S.

August 27, 1949, Saw  
90 Years of Development

By Max B. Skelton

HOUSTON, Tex., Oct. 22.—(AP)—Saturday, August 27, 1919, is the 90th anniversary of the United States oil industry.

Aug. 27, 1859, a Saturday—Edwin L. Drake, a railroad conductor by trade, used a tin picker to bail crude oil from the first oil well. That was at Titusville, Pa., which soon became one of the first oil-boom towns.

Since then the oil industry has mushroomed into 26 states. More than 1,500,000 oil and gas wells have been drilled.

### HUGE OUTPUT

The first day in 1949 Drake took several barrels of crude from his discovery well. The American Petroleum Institute estimates that between then and the start of 1949 United States wells produced 57,000,000 barrels of oil and gas. There are approximately 35,000 domestic oil companies.

The oilman of today would laugh at the equipment used by Drake. A little six-horsepower engine drove the crude drilling equipment in the 25-foot derrick.

Drake probably thought he had a deep hole when he reached 69 feet the day he struck oil. Wells beyond 12,000 feet now have become common. One well has passed 20,000 feet.

### INVENTED CASING

With the modern equipment of today, Drake probably would not feel at home on an oil-well rig except for one thing—it was he who invented the casing.

Drake's well did not strike solid rock until 39 feet of surface soil had been passed. This soil kept caving into the well hole.

Drake met the problem by lining 39 feet with a heavy iron pipe. Drilling equipment was lowered through the pipe to solid rock.

There were no more casing problems. Drake's casing theory has remained as common practice in the industry throughout the 90 years. Except for its proving oil could be found by drilling Drake's casing in troubles produced his greatest contribution to the oil industry.

### Sleep At Home

CADILLAC, Mich.—(UP)—The police department has started strict enforcement of a 9:30 curfew for those under 17. Teachers complained too many children were falling asleep in classes.

In New York City it is against the law to mow the lawn on Sunday.

## Legless Kiwi Fed As Vets Hunt Limb

AUCKLAND, N.Z., Oct. 23.—(CP)—Worms are currently at the Auckland zoo where children can gain admission by paying a pint of jam.

The zoo has a caged kiwi which cannot scratch for worms but retains its hearty appetite and consumes at least a quart of jam a day. The zoo is planning to set up a worm farm from the children's admission fees to keep the bird supplied.

New Zealand's strange wingless bird, although the national symbol, is very rare, and when a kiwi was caught in an opossum trap it was carefully tended even though it has a leg. It will be the first live kiwi many Aucklanders have ever seen.

Meanwhile the Disabled Services' new Re-establishment League has offered to "set things on its feet again." New Zealand soldiers serving overseas during the war were widely known as the Kiwis.

The League says it has possession

EDMONTON BULLETIN, Saturday, Oct. 22, 1949 37

A large number of animals, including kiwis and it says no reason why it should not be possible to develop a suitable artificial leg for the satisfaction of the owner.

### Ah, Wilderness!

PARAHIRI, Kan.—(UP)—Although liquor is legal in Kansas, Parahiri has no liquor store.

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## Rowboat Provides Vacation

CHICAGO, Oct. 22.—(UP)—The Meyer family piled into their little rowboat, went 500 miles up and down Lake Michigan and called it a vacation.

They're back now, vowing they'll do the same thing next year. The five-week cruise in their 14-foot rowboat was "the most glorious vacation anybody could ask for," said Edwin P. Meyer, 34-year-old University of Chicago physical education teacher.

Along with Meyer went his wife, Vera, and their son, Buddy 9.

The three of them, three inflatable mattresses, three sleeping bags, a waterproof tent, and a few staple food provisions made the round trip to Grand Haven, Mich. plus a couple of side excursions up inviting rivers.

For these occasions when rowing was too much to cope with, they had a small, homemade sail and a one-half horsepower motor.

Meyer explained that each afternoon, they would pull into a campsite and settle down for the night. They ate what they caught, fish, plus some fresh produce provided by the area they called home for the night.

About 1.6 per cent of the people in the United States now are 65 years or older.



THIS WELL never produced a drop of oil but it performed noble service in Leduc producing area. It is relief well drilled for purpose of subdividing wild d'Antic No. 2. Millions of gallons of water were pumped down this well and second relief well to cause flames that enveloped Atlantic Rouge in September of 1955.

### All Joneses

PACIFIC GROVE, Cal.—(UP)—Police Sgt. Herschel Jones investigated a truck-and-car smashup here. The truck was driven by Bernard Jones and the car by Ray G. Jones. None was related.

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One of the richest areas in the world—Alberta stands at the threshold of a truly great destiny!

For further information on this great Western Canadian Province write Industrial Development Board, Legislative Building, Edmonton, Alberta

INVESTIGATE ALBERTA NOW—Alberta industry is enjoying real prosperity and the prospects of an even greater future. YOUR business too can prosper in Alberta!

**Province of Alberta**  
LEGISLATIVE BUILDINGS Edmonton



REDWATER was just whistle stop before black gold spouted from rich farm lands surrounding town 35 miles north of Edmonton. New R.R. Alberta's fastest.

growing hamlet. Black smoke from recently flared oil well drifts across main street of thriving town centering west park and field.

## Huge Photo Map Project Will Aid Oil Geologists

An aerial photographic survey of Alberta's oil-rich square mile land area is under way. When the job is finished in about three years, the province's mapping service will be able to provide a complete photographic map of the province.

The project is being carried out by the Alberta Geological Survey, which is part of the provincial government. The survey is being carried out in a series of stages, with the first stage completed in 1948. The second stage is now in progress, and the third stage is expected to be completed in 1950.

Johnston, a geologist, says that the survey is a very important one, as it will provide a complete photographic map of the province. This map will be used by geologists to study the oil fields and to plan for the future development of the province.

About half of the province still must be surveyed and properly mapped. It is expected that the project will be completed in about three years. The cost of the project is estimated to be about \$100,000.

**GREAT VALUE TO PROVINCE**  
The project will provide a complete photographic map of the province. This map will be used by geologists to study the oil fields and to plan for the future development of the province.

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## Yellowknife Is Served With Utility Services

Yellowknife is served with hydro-electric power and has sewerage, water and sewage disposal services. The town is also served with telephone and mail services.

The town is also served with telephone and mail services. The town is also served with telephone and mail services. The town is also served with telephone and mail services.

## All Jobs Near Place to Play

No one in Alberta is more than a few miles from a place to play. The province is rich in recreational opportunities, and there is always something to do, no matter what the weather.

Some of the province's most famous spots are Banff, Lake Louise, Jasper Park, and Watkinsburg. There are also many other places to visit, and the province is always ready to welcome visitors.

### Asks For Jail

Edmonton, Oct. 22.—The city council has asked for a jail to be built in the city. The council says that the current jail is too small and that it is in need of repair.

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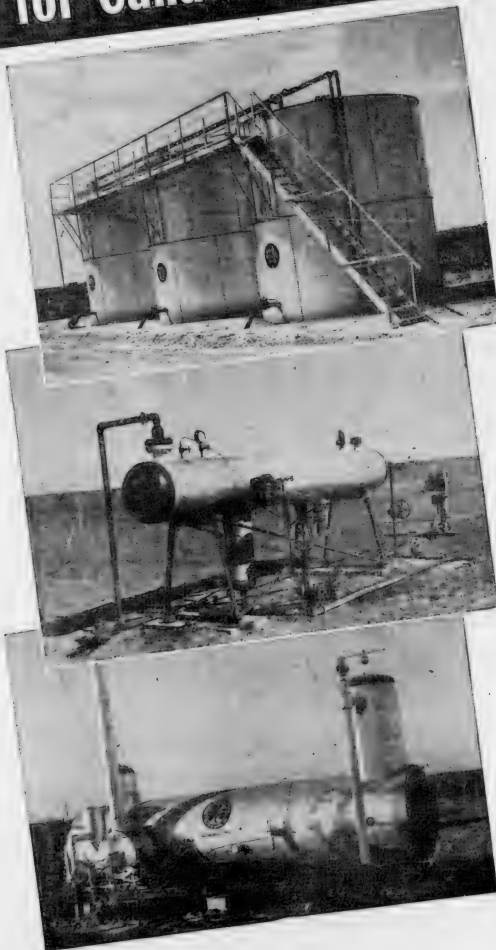
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CAL GARY



BULLDOZER CREWS and truckmen battled forest wilderness and soggy, treacherous ground in building road to scene of Muskeg well operations in winter of 1947. Well cost more than \$1,600,000. It was

Snow removal machine produced clean 16-inch path. A multi-blade firm is equipped with blade implemter is said to throw the standard 1½-hp gasoline engine; snow as much as 25 feet away

abandoned after repeated tests failed to find oil in commercial quantities. Imperial Muskeg wildcat was drilled in foothills area 170 miles west and south of Edmonton.

## Geologists Play Important Roles

While oil prospecting often proves highly remunerative for operating companies, it also produces an interesting sidelight when petroleum geologists go to work.

This is done through a process known as core drilling. The core drills cut out long, cylindrical-shaped rock pieces, which are brought to surface and then to a laboratory where the strata can be identified by the fossilized remains of ancient creatures, long since buried hundreds of feet below surface.

At the lab are a group of geologists who have a very special acquaintance with the innumerable tiny creatures which remain in the rock formations.

Many types of these creatures existed for only a short time before they became extinct. Today these are known as "markers," and whenever a geologist encounters one of these he knows exactly what ancient sea floor—now a rock stratum—it came from.

If the geologist finds the same marker fossils much lower in the

earth at one point than at another he will know that the formation is dipping and this knowledge may lead him to a rock trap which contains oil.

When the first Leduc well was begun Imperial had decided to core carefully at frequent intervals to obtain a record of rock strata. On subsequent wells it will watch carefully to discover the depth of the "Devonian," the formation which produced oil at Leduc.

This will help determine what kind of rock trap contains oil at Leduc.

and also to some extent, how much the area may be expected to yield.

While core drilling brings up actual samples of rock in the form of cylinders perhaps two inches in thickness, the geologist does not depend entirely on these for information. Continuous core drilling would be too slow and too expensive.

He has men known as sample cutters, who catch samples of the rock cuttings as they are washed up from the bottom of the well. These samples are given a quick check at the well and then sent to the laboratory. "They pickers" wash the fossils out of the mud and dry them, and the subsurface geologist examines and identifies them with the aid of microscopes.

Very often an oil company is quite satisfied with the geologic

EDMONTON BULLETIN, Saturday, Oct. 22, 1949 39

information it gets from a hole for as much as 300 feet on the Alberta and Saskatchewan plains. In this survey four portable core drilling rigs were almost steadily in operation for five years; they drilled to an average depth of about 300 feet, and obtained some 12,000 samples which now rest in the company's fossil "museum." The work cost roughly \$50,000.

When important wells are being drilled—geologists are always in attendance. They watch carefully the rock cuttings which come in the surface and whenever necessary they ask for the core itself. Perhaps once in a lifetime they see what created the eyes of Geologist Steve Unshara at Leduc No. 1—a vital core sample saturated with good-grade oil.

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# Agriculture

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The growth of agriculture in Alberta over forty-two years has been surely phenomenal. Fortunate indeed, is this land where nature has been so generous in bestowing all the benefits of favorable climate and essential materials where agriculture may flourish in all its varied branches. Alberta agriculture is noted for its diversity. Wheat growing which has expanded from 150,000 acres to 7 million acres in 42 years is merely a reflection of the enormous growth in all branches of the industry. Rapid strides have also been made by the dairy and poultry industry . . . cattle, sheep and horse raising continue to produce championship stock which have won top honours in international competitions. Sugar beet growing and refining has developed tremendously to one of Canada's large supplies of sugar. With 40 million acres now occupied . . . the unique and amazing development of irrigation in southern sections has unfolded new wealth of arable lands. Nowhere else will be found such vast and favourable opportunities for agricultural development. Scientific research is constantly finding new uses for raw materials from the good earth. A new age of miracles in the conversion of agricultural products is upon us. Alberta stands on the threshold of even greater agricultural expansion—the essential industry for sound prosperity.

AGRICULTURAL SERVICES

The Alberta Government Department of Agriculture provides a variety of highly skilled services, each devoted to assist in providing leadership and guidance to improve the quality of farm products and to encourage economy in production.



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**GROWING PAINS** At Redwater produce strange mixture of old and new. Two school boys hoist bucket of water from old windmill-type well here in shadow of ultra-modern school buildings. Some 35 miles northeast of Edmonton, Redwater is busiest centre on Alberta oil map at present time.

## Village Smithies Aplenty At Big Ploughing Match

By William Mavor

British United Press Correspondent

There may be shrill cries of "Underneath the spreading chestnut tree, the village smithy stood."

There may be a lack of appropriate trees at Burford, but there was not any lack of village smithies when the International Ploughing match was held here on the farm of H. W. Amy.

At least 50 smithies competed in the five classes to show the public the art of horse shoeing is not quite as lost. In at least one contest the small chisels were hammered out by competitors who were required to



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## Devon Plans To Be Village

Already larger than many Alberta towns, oil centre of Devon is seeking incorporation as a village. Decision to seek incorporation was made at a recent meeting of community ratepayers at which Verne Hunter of Imperial Oil Limited presided.

After a lively discussion, a vote indicated incorporation as a village was desired.

Special committee will approach the Provincial Government with the official petition seeking incorporation.

Devon is at present administered by Municipal District of Clover Bar.

### Kicker For Baby

PHILADELPHIA.—(UPI)—Baby's bottle soon may have a new "kicker" in it. The milk research laboratory of the Philadelphia Children's Hospital has developed a new apple syrup which, mixed with warm or cold milk, is said to be helpful for infants and older children suffering from anemia.

power to deliver nearly 1,200 gallons per hour. The only things missing for city folk was paved streets and sidewalks.

### 500 PLOUGHMEN

Some 500 contestants took part in the ploughing match, using implements such as the "Scotch Fough" and the modern "virgin-type" tractor plow.

Contestants took 1,000 acres of land for the contest. The contestants not only had good ploughing in mind, but must have their eyes set on \$14,000 in prizes. Together with trips to the British Isles, one to the 1940 International Livestock Exposition at Chicago, and a tour of the Tennessee Valley.

Behind the scenes of the Oct. 11-14 event, workers completed new facilities for an expected four day attendance of 200,000 people. A tent city sprang up, complete with facilities of water and hygienic for his new two-mile long main street of exhibits and restaurants. Sand point wells were driven with

Two out of three pedestrians killed by motor vehicles either are violating a traffic law or committing an unsafe act.

## Canadian Artist Started on Table

First Work Done In Pen On Top of Shop Furniture

By Stuart Underhill

Canadian Press Staff Writer

LONDON, Oct. 22.—(CP)—Scottie Wilson, 67, Glasgow-born artist whose weird designs produce ravens or headcases according to your viewpoint, marks his career as a painter from the day he started doodling on a table-top in his second-hand shop in Toronto.

There he sat, listening to a radio program of classical music accompanied by a brewer, when all of a sudden the urge to draw hit him. He grabbed a fountain pen out of his stock and went to work on the table, which happened to be topped with cardboard.

### 10 YEARS AGO

That was 10 years ago, and Scottie has been at it ever since. He has had successful one-man shows in Toronto and London, and will stage another in New York around Christmas.

Seattle, a chuckling little man with ruddy cheeks and a rich Clyde accent, is a creature of impulse. It was that he made a living in the United Kingdom until 1938 when an impulse to go to Canada struck him "like a kick in the pants."

He landed in Toronto. Having finished the table-top, Scottie turned to bits of paper which he subsequently tacked up on the walls. Startled customers were told it saved him buying wallpaper.

By 1942 his feet had taken Scottie to Vancouver. Painting resumed, his chief preoccupation but

his trading instincts provided the bread and butter, whether he was dealing in used clothing or buying odd lots of jam from canneries and selling it to Chinese restaurants for fruit pie.

The public had a chance to look at his work in 1945 when he housed a store on Granville street, filled it with 750 paintings, and sat in the window at his drawing-board "as an added attraction." People came to stare but nobody bought.

It wasn't until later the same year, when he had returned to Toronto, that art dealer Douglas Duncan took him up, and his work began bringing good prices. Wilson says the only fault to blame, who encouraged him when he was dependent and "kept me on the go."

RETURNED TO U.K. But a year later another impulse hit him and he returned to Britain. He has been here ever since, turning out his odd-effective work.

Scottie scoffs at people who read too much significance into his work, though he describes himself as a fellow whose mind is at work all the time.

## World Eyes Rich Alberta

It is no accident that the attention of Alberta, drained by the Peace River district have captured world championship titles at international shows year after year.

People have heard of the climate, the fertility of its soil and the abundance of its crops of its beauty, with broad rivers, verdant valleys, sweeping prairie and heavily wooded lands.

Development of this section has hardly begun. Only a small fraction of its fertile acres is under cultivation. Literally millions of acres of raw land are waiting to provide homes and wealth for the coming population.

Ideally suited for mixed farming, the Peace River district is one of the best in the world. It is in the coming years these possibilities will be grasped by thousands of people seeking new homes where they can enjoy peace, security and contentment.

The Peace River district is rich in its industries. Lumber mills are located at various centers. The quality of the timber is of the highest. The district is also rich in its minerals. Coal and gas occur in considerable quantities in the south and eastern sections.

In regard to transportation, the Peace River district is served by the Northern Alberta Railway. The district is also served by the Canadian National Railway. The district is also served by the Alberta River and the Peace River.

It is no accident that the attention of the world has been attracted to Alberta. The district is rich in its industries, its minerals, its climate, its fertility of its soil and its abundance of its crops of its beauty, with broad rivers, verdant valleys, sweeping prairie and heavily wooded lands.

### FINDING "hef and hoist"

For stocks of all companies in past two years has been unenviable task of Edmonton's investment commissioner, G. W. Carter.

### Firemen Off Duty Building Their Own Homes

MACON, Ga.—(UPI)—Firemen here have found something to do with their spare time. Instead of hanging around the station house playing checkers,

in their off-duty days, the men have off their uniforms, put on carpenter's aprons, and build homes for each other.

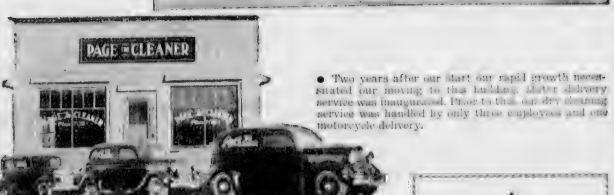
Three groups of six men each are working on these homes in different parts of the city.

Everything—paving, painting, plumbing, wiring and construction. When one house is completed, a fireman will move in and the crew will move on to the next project.

## Growing With Edmonton!



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**WILD WEST** trucking scene is this shot of Lloydminster oil men loading big truck as they "break camp." Truck rears like bronc under weight of powerful 13-ton derrick. Later, truck is hauled back to earth by four men

on front bumper. Truck is too light on front wheels to steer so second truck is hooked on in front to assist. Fast-working Lloydminstermen take about 10 minutes to load conventional unit. Entire 40-ton drill rig can be dismantled, moved, and back in operation in 24 hours.

## Alaska Road Is Portent For Future

Alberta was closely associated with the building of the Alaska Highway. If anyone doubted the wisdom of this project, he must have been amazed when the Japanese withdrew from Korea. By this move alone, the sweat, misery and money involved in the undertaking were repaid many times over.

The physical difficulties which were overcome in building the road will long be remembered. Through 1,400 miles of wilderness, the American army and civilian personnel aided by Canadians, constructed the road with amazing speed.

They defied the route with serviceable airports. They laid pipelines to carry adequate supplies of fuel to the road. Developments normally taking many years were compressed into the space of a few months.

The Alaska Highway can play an ever-increasing part in the development of the north. In the first place it made possible the direct route from American and eastern centers of population to Alaska and the Orient, and will no doubt attract many people interested in developing this area. Finally, the route will be a considerable tourist trade.

Alberta's skymways already enter into the scheme of world air travel. Alberta's railroads and highways play an important role in international commerce. The Alaska Highway will share in these things.

**Hand Truck Folds Into Small Space**  
"Fold-A-Way" hand truck pulls open like an accordion to height of 4 ft. Can be stored under counters, rear of trucks, or in luggage compartments.

Ten trucks can be stored in space required for two trucks of the same type. It folds down to height of 4 ft. Can be stored under counters, rear of trucks, or in luggage compartments. It folds down to height of 4 ft. Can be stored under counters, rear of trucks, or in luggage compartments.

The current name for Mexico is the United States of Mexico.

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## Up-From-Bottom Oil Head Sure Lloyd. Will Top Field

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**MOST FABULOUS** oil well in Alberta's fabulous new oil fields is Imperial, Ltd. 144, Grouse, Spring No. 1, 17 miles southwest of Lloydminster. For so long, production from a single well has been 500 bbl. daily. In the past, the well has produced 12,000 bbl. daily. With continued production, several million bbl. may be produced in the near future.

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## "CANADIAN OIL and GAS INDUSTRIES"

The rapid growth of oil production in Alberta, with potential reserves ranking with the world's major oilfields, promises to make this one of Canada's leading industries.

Its importance has now come to demand a technical publication that will fitly serve it as a Canadian industry, and provide an authentic technical and news medium covering all phases of Canadian oil and gas operations.

National Business Publications Limited of Gardenvale, Ont. will publish in November the first issue of CANADIAN OIL & GAS INDUSTRIES, a bi-monthly publication which re-establishes a similar magazine it published a decade ago under the name of "Petroleum in Canada".

CANADIAN OIL & GAS INDUSTRIES will be devoted to all branches of the industry from exploration to production, refining and transportation. While it will not cater to the oil speculator, it will keep financial men informed of the industry's affairs. Its western field editor is Sidney Norman of Calgary.

CANADIAN OIL & GAS INDUSTRIES will be published in standard industrial magazine size, printed on book paper. Full information, including advertising rates, may be obtained from any of the offices named below.

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GARDENVALE, P.Q.  
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I am engaged in the oil industry, in one of the classifications mentioned above and shall be pleased to receive a complimentary copy of the first issue of CANADIAN OIL & GAS INDUSTRIES.  
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CALGARY EDMONTON LETHBRIDGE





OLD DOBBIN was pressed into service during construction of road in costly Musking operation of Imperial Oil Limited in Feb. 1947. Seventy-mile road had to be hacked through mountain wilderness to bring in drill

**Alberta Fish Unsurpassed**

Fish is important for three chief reasons. First, it is a source of food for the local markets. Further, as commercial importance of Alberta fish as an export commodity is considerable. And finally, from the standpoint of sport they hold an unsurpassed attraction.

Chief fishing wealth is found in the lakes of central and northern Alberta. Lesser Slave Lake, Cold Lake, Lake Wabamun and Pigeon Lake all contribute varying amounts of the total catch. Lake trout is the important fish, particularly in Cold Lake, while other species include whitefish, pike, pickerel and tullibee.

Total catch for the 1944 season was over 7,000,000 pounds of fish, valued at nearly \$1,000,000. Nearly 50 per cent of the amount was exported to Chicago, New York and other American cities.

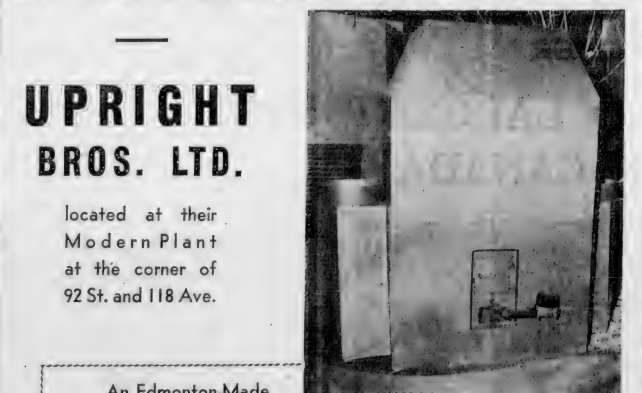
The fishing industry in Alberta represents a capital investment of \$350,000.

And then there's sport fishing. In Alberta's mountain-fed streams and in blue lakes the angler can find some of the finest trout fishing on the continent. Even the best fishing grounds are easily accessible and attract large numbers of sportsmen every year.

Government fish hatcheries are maintained at Haff and Jasper, and government supervision helps to keep the supply in good condition.

Occupation authorities have introduced to Japan compulsory education through the ninth grade.

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"SPECIALIZING IN HEATING"

# Waves of Crime Sweeping Europe

## Burglary, Sex Crimes, Murder For Profit Predominate

By Harold Tindler  
British United Press Staff Correspondent

LONDON, Oct. 22.—(HUP)—Crime and juvenile delinquency have increased considerably all over Europe since the war, a British United Press survey showed today.

Burglaries, sex crimes and murder for profit motives are the outstanding types of crime of the post-war period.

They are motivated largely by the aftermath of the war, shortage of living conditions, increased job for adventure, difficulty to reach adjustment to normal conditions after the adventure of war, and the pattern in real estate movement all over Europe.

Police forces prove to be too small in many countries to cope with the crime wave and to act as palliative against crime.

An increased effort is being made all over Europe to combat, above all, juvenile delinquency.

**U.K. CRIME UP**

In Britain crime has risen 60 per cent during the last ten years. There were some 135,000 indictable offences in the current year compared with 78,500 previous.

Biggest increase—by 150 per cent—was in burglary cases.

Most lurid crime for centuries in Britain was the "Acid Bath Murder Case" of John George Haig who earlier this year was found guilty of the murder of an elderly widow.

In his confession to the police the 35-year-old company director claimed to have committed nine red-hot murders to satisfy his thirst for blood. His statement said that he used to make an incision in his victim's neck and then drank a glass of blood.

**MURDER MURDERS**

Belgium reports an increase of murders for both jealousy and profit motives.

Courts convicted for adolescents in Belgium between the ages of 16 and 17 on charges of larceny, murder and assault—leant by 140 percent over the previous average.

Youngsters confused with excitement and violence of the war and clamor of the real estate movement during the war period are of unstable and unwilling to distinguish between patriotism and ordinary crime.

However there is marked decrease in crime.

# Superior Clay For Potters

Articles from the largest drain tile in the smallest respect are made from Alberta clay. And in between are stoneware crocks and jars, gracefully turned vases, and gaily colored dishes.

There are bricks of all kinds. Tiles are turned out in quantities to build chimneys of the latest design. Tiles are also used for the lining of fire houses all over the land.

Alberta's best known clay products come from the Stettin district. Besides rich deposits of superior clay, this district has natural gas, which is used in the best of the pottery.

Stettin is the deep district, in the center of Alberta's glass industry. Besides all types and quantities of pottery, various equipment are produced in this district.

ville-jewelry, involving a robbery of \$100,000 worth of jewelry and the fatal shooting of a girl girl who wanted to take "femme fatale".

In France the murder of crime took a sharp jump after the war, more so than after World War I.

The figure of crimes, and counting burglaries, rose from 32,000 before the war to 145,000 immediately after the war, and of burglaries, since then there has been a slight decrease.

For sheer sensationalism the most noteworthy crimes in France recently were the robbery of some \$200,000 worth of jewelry from the An Khan, the hold up of a train.

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"Wingtail" finest quality. 14 inch. **\$5.45**

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Storm Sash Buttons. 1 doz. **20¢**

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Also complete storm door hardware and all sash hardware.

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See us for all your electrical needs. Wire, Appliances, Fixtures, Etc. **\$1.89**

**Kalsomine Brushes**

First quality 1 pound tin. Several good colors to choose from. For **19¢**

**32 Piece Breakfast Sets**

Heavy enameled metal. Includes 12 place settings, 4 place settings, 4 place settings, 4 place settings. **\$6.95**

**Mattress**

Heavy enameled metal. Includes 12 place settings, 4 place settings, 4 place settings, 4 place settings. **\$8.95**

**Vacuum Bottles**

Special. **69¢**

**Window Glass**

Clear. Breaks glass in all sizes. Bring your window in for glass or save up to a dollar.

**Suit Cases Trunks**

Heavy enameled metal. Includes 12 place settings, 4 place settings, 4 place settings, 4 place settings. **\$14.45**



**PULLING PIPE** is exacting job on oil well drill rig. Here veteran crew goes through passes under watchful eye of tool pusher Don McClelland (extreme left) as work proceeds at Imperial Oil Limited wildcat in Leduc.

sector. Much can go wrong in jig time when pipe is being yanked up milled-deep hole. There have been few accidents in vast Alberta drilling program.

## Lloyd's Hustling Drillers Can Show Know-How to South

Much vaunted "Yankee know-how" doesn't mean much to the drillers and oil men at Lloydminster. They figure they can teach a few tricks to the boys anywhere.

They are blundering drillers and are probably among the best in the neighborhood of four the world at setting down and making "Tanner Vetter" setting up drilling rigs and setting **USE SPECIAL RIGS**

A well down in the neighborhood of four the world at setting down and making "Tanner Vetter" setting up drilling rigs and setting **USE SPECIAL RIGS**

The battle-bubble boys are able to tear down one of these 40-ton rigs, move it to a new location, set it up, and be on the way down again in 24 hours.

This group of drilling makes it tough for the crews as they set down have time to settle down on a job before they are on the move again.

**FIELD FOR 'LITTLE MAN'** Shallow drilling also makes it tough for the drilling companies.

Every hour wasted moving a rig is a much money out of the pocket. And when \$100,000 is invested in a rig, it has to be kept working to make profit. As an oil, however, nature was kind to the Lloydminster oilmen

when they laid down their oil field on this ancient sea bottom some 200 feet. She made it possible for the little man to have an oil field all their own.

Nature kindly made the oil heavier and thus less valuable. For this reason the big interests have not moved into the field, leaving it open to smaller outfits.

The oil is also at a depth which makes it possible to sink a well for around \$25,000, mere bagatelle in the oil business.

**TREASURE WIDELY SPREAD** Another nice feature is the fact that you have 60 chances out of 100 of hitting oil. Out of 200 wells on the field there have been only three dry holes.

The field has already been proven as the largest heavy oil field in the world. It is some 22 miles by 26 and gives every indication of a considerably larger extent.

Oil sands of a similar formation are found 140 miles southeast at Wabasca, Saskatchewan, and 200 miles northwest at Braumton.

## Figurehead Is Revived

**VANCOUVER, Oct. 22.—(CP)—**A spotless white-and-grey hull pulled into port the other day with a salt-encrusted figure of a maiden lashed to her prow—marking the revival of a dying seafaring art. The handsomely-carved bronze figurehead is in the tradition of the old sailing ships.

While the rest of the motorship *Bataan*, a Norwegian vessel, is kept sleek and span, the figurehead on the bowsprit gathers proud tarnish—a testimony to the storms and heavy seas through which she has led her ship.

The streamlined ships of the Owen line are the first to revive the tradition.

## IRO Budget \$55 Million

**GENEVA, Oct. 22.—(AP)—**The general council of the International Refugee Organization has voted a \$55,000,000 budget to extend its work nine months beyond the original deadline date of June 30, 1950.

But it warned that thousands of refugees will still require assistance when the supplementary period is ended.

The IRO hopes to restate a total of 260,000 persons in the current fiscal year. This would bring the total of refugees provided for to 270,000.

However there will remain 20,000 refugees at the end of next year. The most optimistic estimate of the number which can be settled after June 30 is 100,000, leaving 100,000 still to be provided for.

## CCF-er Will Get Request

**OTTAWA, Oct. 22.—(CP)—**When a CCF member in the Commons doesn't Clement Attlee's picture hang with those of all British prime ministers in the centre block of the Canadian parliament.

William (Scotty) Bryce (CCF—Saskatchewan) threw the question at Prime Minister St. Laurent in the house, four years after Mr. Attlee's Labor party swept to power at Westminster.

The pictures hang on the sixth floor, along both sides of the corridor leading to the parliamentary restaurant. Churchill is there, and the Prime Minister, Lloyd George, all of them but Attlee.

The answer of Mr. St. Laurent was that "I assume it is not there because officials have no portrait available."

Then, in a courtesy gesture, he suggested that, having heard the exchange, he might arrange to have a picture of Prime Minister Attlee join the gallery of his predecessors.

## Service Balks

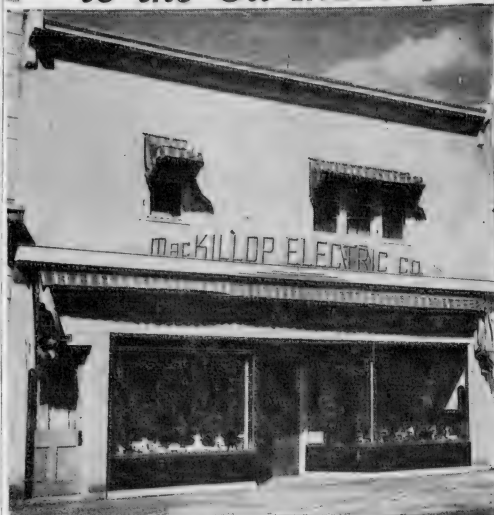
**GREENVILLE, S.C.—(UPI)—**The Red Cross hated to turn down the woman who wanted \$20 to get her son home. But, explained the home

service program, it had no provision for furnishing food. He was to jail.

The greatest ocean depth near the island of Mindanao, in the Pacific, is 35,400 feet.

"Mitsubishi" surface cook unit is of simple ring construction with a self-cleaning flap-top designed to fit bottom of stove. New design permits more heat to go directly into the foods and less is dissipated in the kitchen.

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production problems are  
at your service.

## Thousands of Mines Staked in Yellowknife

Gold production in Yellowknife district commenced in August, 1938, and by 1942 the following properties were milling gold: Con-Ryon Mine operated by Con-Ryon Mining and Smelting Company of Canada, Limited; Nugget Mine, Limited; Plumbago Mines, Limited; Thompson-Lundmark Gold Mines, Limited; and International Tungsten Mines, Limited, on Copper Island, Great Slave Lake. The Ruth Mine of Consolidated also was brought to a state of production by 1942. A shortage of labor and other conditions brought about by the war forced temporary suspension of gold production on these properties.

The end of the war was renewed and increased activity in the Yellowknife District. Thirteen mines have now passed beyond the preliminary development stage and underground operations have been commenced. Three of these are Con-Ryon, Giant, and Nugget, are producing. The next producer in the Yellowknife field is likely to be Discovery-Yellowknife Mines, Limited.

Electric power to meet the requirements of operating mines and the settlement of Yellowknife for some time to come is now available from the new hydro development on the Snare River, 94 miles from Yellowknife westward, with an initial capacity of over 1000 horse-power.

### Bailiff Fined

MONTGOMERY, Cal. — (UP) — There were two bailiffs in court when Judge Monty Hellen arrived so he fined one of them \$20. The one he fined was Richard I. Bailiff, charged with smoking in bed. The other was the usual court attendant.

### Papa Sues It

MEMPHIS, Tenn. — (UP) — Women shoppers looked on with amusement as a husband bought the week's groceries. He had his arms full and a baby was sound asleep in a baby's cart strapped to his back, papoose-style.

## PERHAPS BOTH SIDES ARE A LITTLE EXTREME

BOWLING GREEN, O., Oct. 21 — (AP) — A student rebellion against regulations at Bowling Green State University began flaring late yesterday and threats of a strike died down.

The students withdrew their demands for sale of 23 (alcoholic content) beer, more tolerance in the campus government, and a abolition of a rule which prohibits unmarried coeds from riding in automobiles or taxicabs.

But they continued to insist upon "complete freedom of expression" for the student newspaper, the Bee Geo News, and a student government without faculty domination.

## Mud Engineer Is Important to Oil

One of the prime requisites of a successful oil well is its "mud engineer."

On the skill and knowledge of this man hinges an investment that may mean a booming well or the loss of a \$100,000 investment. When oil is first located, as at the Leduc field, the sheer weight of the mud beneath the earth's surface keeps the oil under control by its constant pressure. In order to do this, mud of necessity, must be the right consistency as all oil jobs do not require the same type of mud. It is here the mud engineer comes to the fore. A skilful engineer on the job has a variety of chemicals to choose from as an antidote to keep his mud at just the right consistency. There are formations in the earth that cause mud to thicken or turn into a mass of "gum" which seals any drill plugged into the earth. By his skill, the mud engineer can keep the mud flowing freely, lubricating the swirling drill bits as they plunge into the bowels of the earth.

## All Women Barred In Newest State

Outer Baldonia Principality Is Strictly For Men Only

By Robert J. McCleave  
British United Press Correspondent  
HALIFAX, N.S., Oct. 22 — (UPI) — The world's newest state may never be eligible for the United Nations. It would be hard to find it on a map, and its population is sometimes non-existent.

But it has one distinction—it allows no women to enter its boundaries.

The state, or principality, is called Outer Baldonia, situated in the Soldiers' Hip, a tumbling ground off the southwestern tip of Nova Scotia. Its borders enclose three acres.

Outer Baldonia is owned by Russell Arundel of Washington, D.C., a big game sportsman. He bought the island from a group of Nova Scotia fishermen who, however, retained one important right: the fishermen can graze their sheep on the island, and some 20 blasting animals are permanent residents.

CLUBHOUSE BUILT  
Arundel bought it, a three-room club house was built on the island. It's a place for tuna fishermen to go and swap stories about the ones that did or did not get away.

The Washington sportsman decided that Outer Baldonia could offer its members more than the amenities of the rude building. He decided it could be a principality free from women, a place where the fishermen would be free to boast about their accomplishments, and even to utter profane language when the big ones got away.

Arundel made the rules for his fishermen friends when he drew up the constitution of the island. The rules are a declaration of independence. The declaration is dated "in the year of Outer Baldonia, One" in effect kicking out the Gregorian calendar.

Fishermen, he says, are a race alone. They have the right to boast and be believed, the right of freedom from question, from nagging, from shaming, from women, from taxes, from monologues, war, and inhibitions.

Arundel also wrote into his declaration a rule that fishermen have the right to applause, vanity, flattery, and praise; the right to swear, lie, drink and gamble, to be noisy, pensive or hilarious and the right to sleep all day and stay up all night.

TURNED DOWN PLEAS  
The rule of the principality was great, even though each had to pay from \$20 to \$100 to join.

But, like all Gardens of Eden, there turned out to be a serpent. The women got curious—wanted to know all about the principality, and most of all to visit the Kingdom of Outer Baldonia.

The pressure grew terrific, but Arundel managed to turn down all feminine pleas.

Came the day a few weeks ago, however, when he decided to return to the United States and do some hunting. Before he left, he delivered the government of Outer Baldonia into the hands of Elton Boudreau, a guide and secretary-manager of the Wedgetop Tuna Guide Association. He also is called Chancellor of Outer Baldonia.

When Arundel left, the women turned on his deputy and Boudreau was besieged by the fair sex to change the constitution of Outer Baldonia.

HIS A WEAKLING  
Boudreau, unfortunately for his boss, is a different man from Arundel. He's apparently susceptible to womanly charms.

And Boudreau broke down. He says that the constitution of Outer Baldonia should be changed so that "I think we should let the women in."

That one brought plenty of howls from the menfolk. And they threw in the 94 dollar question: Why?

To that one Boudreau answered tamely: "They don't like being kept out."

BIG TEST TO COME  
The big test will come next year, when the tuna fishing season brings throngs of Outer Baldonia menfolk back to their kingdom. They may find womenfolk all over the place.

No more self-praise, no more curse words about the big ones that got away, no more lying about the

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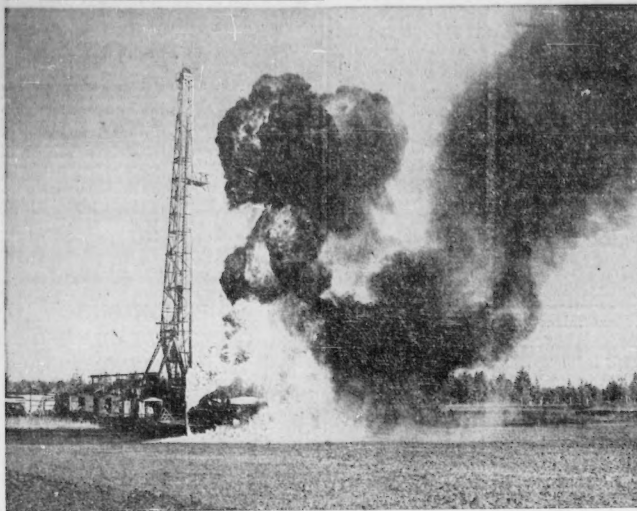
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FINE INDEPENDENT producer was Continental Oil Ltd. No. 8 well in Leduc area of Edmonton oil fields. Spectacular display of smoke and fire signalled start of production at Continental No. 8. Although Leduc was

largely an Imperial Oil show several independents hit pay dirt by sporty gamble that field was far bigger than first thought.

## Lords Side With Labor

LONDON, Oct. 21.—(AP)—The Labor government for the first time since its election in 1945 won a recorded vote in the House of Lords yesterday.

The Lords have given their assent to government measures in the past. But Conservatives never have lost on an issue they pushed to a record vote.

The vote was on a routine Conservative amendment to a Justices of the Peace bill.

Many members of the heavily Conservative Lords joined with government peers in opposing the amendment, which was defeated 42 to nine.

**Music All Wet**  
COLUMBUS, Ga.—(UP)—Band-leader Louis Jordan couldn't even swing out with "I'm Forever Blowing Bubbles" after a truck carrying the band's instruments plunged off a bridge into a creek. The instruments were an waterlogged Jordan had to cancel an engagement.

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## Enough Walking

PITTSBURGH, Pa.—(UP)—Postman John R. Crotty has retired. He carried mail here for 37 years. He walked, he estimates, more than 100,000 miles in that time.

## Lost Tips

PAWTUCKET, R.I.—(UP)—On the same day, four persons were admitted to Memorial Hospital after each had had a finger tip cut off while at work.

## It's A Cinch

BURLINGTON, Vt.—(UP)—L.A. Elmer Bliss is a student at the University of Vermont. "My first name is pronounced just like it's spelled," he explains.



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## Yukon's Fame Brings Thousands of Visitors

Yukon offers many attractions to the visitor. It is a land of contrasts—in climate, in physical characteristics, and in human interest.

Its romantic history, so intimately associated with the feverish days of the Klondike gold rush and the "Trail of '98," is recalled by visits to places made famous in prose and poetry. Snow-capped mountains, beautiful lakes, and majestic rivers which flow for hundreds of miles provide an ever-changing panorama that is both interesting and delightful.

For those making use of water and railway transportation, the main points of departure for the Yukon are Vancouver and Victoria, B.C., and Seattle, Wash. Common, well-appointed vessels operated by Canadian and United States steamship companies provide, in normal times, a frequent service from these points to Skagway, following the famous "Inside Passage" for about 1,200 miles along the coasts of British Columbia and Alaska. In transit, calls are usually made at Alert Bay and Prince Rupert, B.C., and at Ketchikan, Wrangell, and Juneau, Alaska.

From Skagway the White Pass and Yukon Railway follows one of the routes of the early gold-seekers up a deep gorge in the Coast Mountains to the summit of White Pass, situated on the boundary between Alaska and British Columbia. From the summit the railway descends by easy grades to Lake Bennett, and skirting its eastern shore northward across the international boundary into Yukon Territory.

The first large settlement reached in Yukon is Carcross, 65 miles from Skagway. From Car-

cross the railway continues for another 42 miles to Whitehorse, metropolis of Yukon.

At Carcross tourists may book passage on the steamer Tutshi for an overnight trip on Tazewell Lake and West Tazewell Arm to the resort of Ben My Chree.

### FAMOUS BY SERVICE

From Whitehorse a variety of excursions may be made. Among the most popular is the trip by steamer down the Levee and Yukon rivers to Dawson, a distance one way of about 425 miles. This trip, on which stateroom accommodation is provided by the British Yukon Navigation Company, Limited, is available at frequencies of about 16 days during the season of navigation.

The route is that followed by thousands of would-be miners on their way to the Klondike. It touches many well-known places such as Lake Laberge—setting of one of Robert Service's most famous poems—the Five Finger Rapids, and Fort Selkirk, first trading post in Yukon. If desired, the return trip may be made to Whitehorse by air.

In the immediate vicinity of Whitehorse, roads lead to the airport, one of the largest in northwestern Canada; Whitehorse Rapids, and Miles Canyon on the Levee river.

Bus trips to Fairbanks, and Dawson Creek, as well as to intermediate points, may be made from Whitehorse, with the option of return by air line. Combination trips involving ocean-going vessel, railway, bus line and river steamer to points in Yukon and Alaska may also be arranged.

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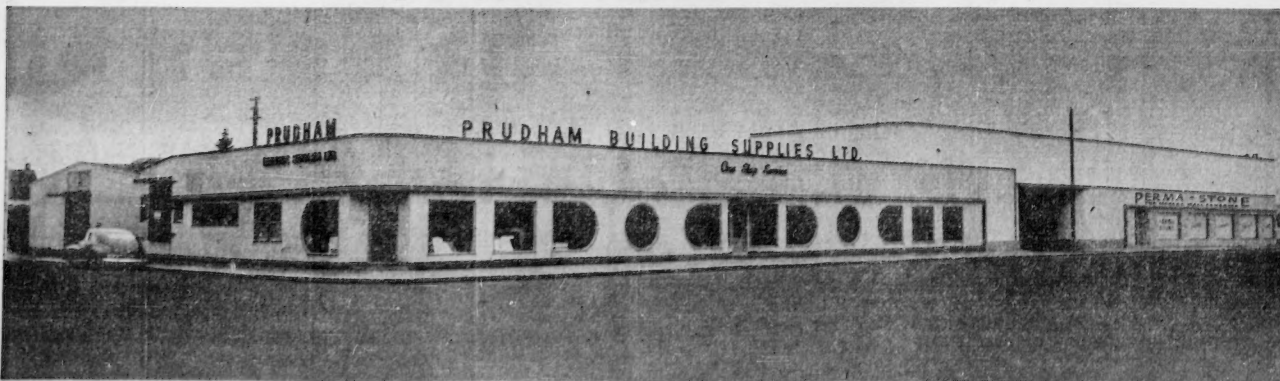
## Here It Is--- "the House of Personalized Service"



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Their reputation for prompt, courteous and friendly service among hundreds of Northern Alberta families is your guarantee of satisfaction when it becomes your turn to furnish your home. (Adv.)

## Prudham Building Supplies Limited - - - "One Stop Service"



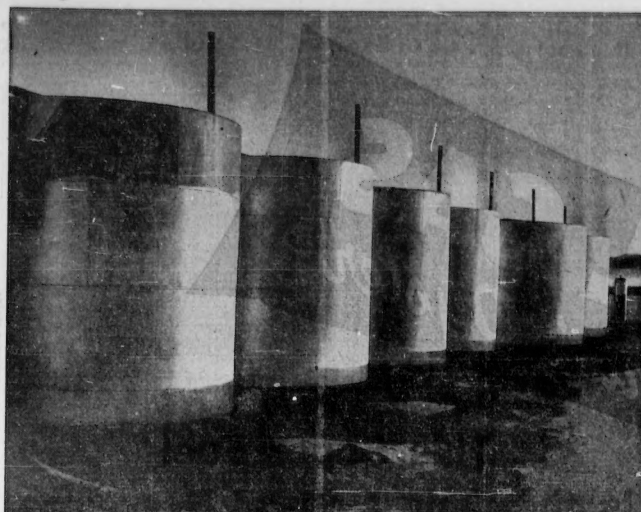
PRUDHAM BUILDING SUPPLIES LIMITED — In the realm of construction for industry, commerce and private dwelling, the reputation of a building supply firm will necessarily depend almost in its entirety on

giving continuous satisfaction to dealers and contractors. The fact that members of the building trade testify to the dependability of Prudham's "one stop service" leaves little to be said. Specializing in everything for the builder, Prudham Building Supplies

Limited draws upon a wealth of experience in this vital field of Canadian industry. All members of the staff are recognized experts in their own branches and their combined abilities assure long-lasting satisfaction with the products they recommend. Just as commercial

building requirements in Alberta have changed over the years, so have the services offered by Prudham changed to keep abreast of progress. Research into new developments continues as the firm looks to the continued growth of the north.

—(Adv.)



CLOSELY packed clusters of oil storage tanks dot landscape in Leduc oil fields. Tanks provide temporary storage for crude near wells until oil can be transported by

pipeline or tank truck to refineries. These oil storage batteries are known in the petroleum trade as tank farms.



LIKE SECOND WORLD WAR battlefield is scene in Redwater sector of Edmonton oil fields as black smoke billows over peaceful wooded countryside from new

producing wells. Storage tank battery of Royalite Oil Co. is in foreground of oil field scene depicted here. Royalite now has 16 producers in new Redwater sector.

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## Anti-Semitic Wave Seen

LONDON, Oct. 22 (AP)—Home Secretary James Chuter Ede expressed grave concern in the House of Commons over assaults on Jews in Greater London.

He told Anthony Greenwood, Labor member for Heywood and Radcliffe, that of 800 violent assaults during the year ended Oct. 8, 35 were made upon people believed to be Jews.

He said arrests were made in 33 cases, and that nine of those proved guilty were under 21 years old.

"I am gravely concerned about these assaults," Ede said, "and I can assure you that the police are very active in trying to ascertain not merely the people who commit the assaults but the people who may have incited them to commit the assaults."

Gas connector constructed of flexible tubing is said to allow gas range or heater to be moved away from wall for simple installation and cleaning and to shut the wall tightly when in operation. Available in three, four and five-foot lengths.

EDMONTON BULLETIN, Saturday, Oct. 22, 1949 47

## Congregation Needs Rest

FITCHBURG, Mass., Oct. 22 (CP)—What church congregations need is a good seventh-inning stretch—so says a Canadian-born minister who spent a week on the other side of the night.

In fact, decided Rev. C. Fraser Kelso, a native of Amherst, N.S., it's often easier for the preacher to give the sermon than for members of the congregation to sit through it at all.

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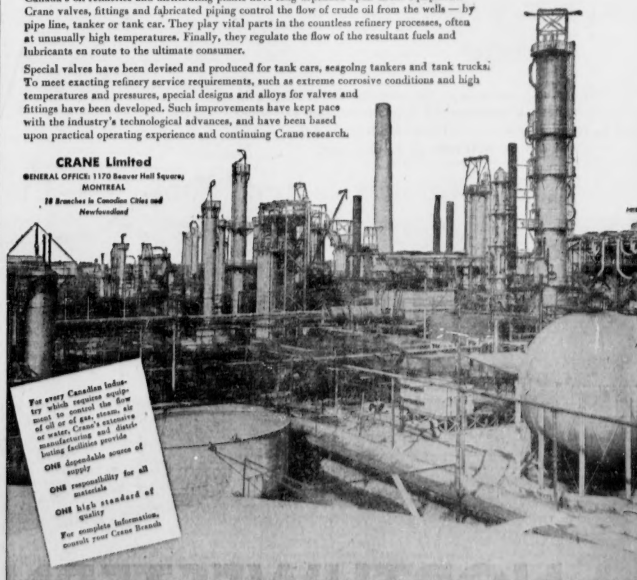
Canada's oil refineries and distributing plants have long depended upon Crane equipment. Crane valves, fittings and fabricated piping control the flow of crude oil from the wells — by pipe line, tanker or tank car. They play vital parts in the countless refinery processes, often at unusually high temperatures. Finally, they regulate the flow of the resultant fuels and lubricants en route to the ultimate consumer.

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# NATURAL GAS

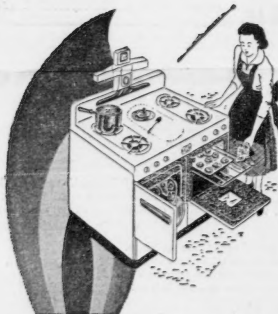
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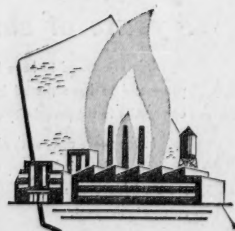
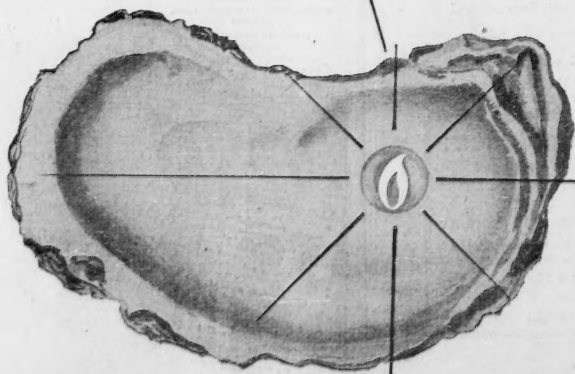
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